

SERVICE MANUAL

Color Digital Camera



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CIRCUIT DIAGRAM (Refer to the separate volume)	

VPC-X360E

(Product Code : 126 251 01)

(U.K.)

VPC-X360EX

(Product Code : 126 251 02) (Europe)

(PAL General)

VPC-X360

(Product Code: 126 251 03)

(U.S.A.) (Canada)

PRODUCT SAFETY NOTICE -

The components designated by a symbol (\triangle) in this schematic diagram designates components whose value are of special significance to product safety. Should any component designated by a symbol need to be replaced, use only the part designated in the Parts List. Do not deviate from the resistance, wattage, and voltage ratings shown.

CAUTION: Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

NOTE: 1. Parts order must contain model number, part number, and description.

- 2. Substitute parts may be supplied as the service parts.
- 3. N. S. P.: Not available as service parts.

Design and specification are subject to change without notice.

1. OUTLINE OF CIRCUIT DESCRIPTION

1-1. CA-1 CIRCUIT DESCRIPTION

1. IC Configuration

IC903 (ICX204AK) CCD imager IC902 (74VHC04MTC) H driver IC904 (CXD1267AN) V driver

IC905 (AD9802) CDS/AGC, A/D converter

2. IC903 (CCD)

[Structure]

Interline type CCD image sensor

Optical size 1/3 inch format Effective pixels 1034 (H) \times 779 (V) Pixels in total 1077 (H) \times 788 (V)

Chip size 5.80 mm (H) \times 4.92 mm (V) Unit cell size 4.65 μ m (H) \times 4.65 μ m (H)

Optical black

Horizontal (H) direction: Front 3 pixels, Rear 40 pixels
Vertical (V) direction: Front 7 pixels, Rear 2 pixels
Dummy bit number Horizontal: 29 Vertical: 1

[Features]

Independent storage and retrieval for each pixel

Square pixel unit cell XGA compatible

R, G, B primary color mosaic filter

Continuous variable speed electronic shutter function

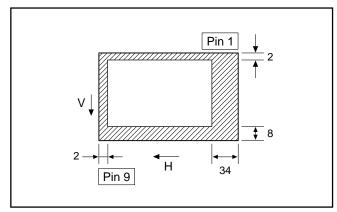


Fig. 1-1.Optical Black Location (Top View)

Pin No.	Symbol	Pin Description	Waveform	Voltage
1	V з	Vertical shift register gate clock		-7.5 V, 0 V
2	V 2B	Vertical shift register gate clock		-7.5 V, 0 V, 15 V
3	V 1	Vertical shift register gate clock		-7.5 V, 0 V
4	V 2A	Vertical shift register gate clock		-7.5 V, 0 V, 15 V
5, 6, 7, 10	GND	GND		
8	os	Image output		
9	OD	Output transister drain		15 V
11	SUB	Board clock		Amplitude 22.5 V Ex. 6 V (Bias level is different from every CCD)
12	OsuB	Board bias	DC	(Different from every CCD) Ex. 6V
13	PL	Protection transistor bias	DC	-7.5 V
14	RS	Reset transister gate clock	_//_	Amplitude 3.5 V Ex. 5 V, 10 V (Different from every CCD)
15	H1	Horizontal shift register transfer clock		0 V, 3.5 V
16	H2	Horizontal shift register transfer clock		0 V, 3.5 V

Table 1-1. CCD Pin Description

----When sensor read-out

3. IC902 (H Driver) and IC904 (V Driver)

An H driver (IC902) and V driver (IC904) are necessary in order to generate the clocks (vertical transfer clock, horizontal transfer clock and electronic shutter clock) which driver the CCD.

IC902 is an inverter IC which drives the horizontal CCDs (H1 and H2). In addition the XV1-XV4 signals which are output from Pins (166), (167), (169) and (171) of IC102 are the vertical transfer clocks, and the XSG1 and XSG2 signals which is output from Pins (168) and (170) of IC102 is superimposed onto XV1 and XV3 at IC904 in order to generate a ternary pulse. In addition, the XSUB signal which is output from Pin (165) of IC102 is used as the sweep pulse for the electronic shutter, and the RG signal which is output from Pin (159) of IC102 is the reset gate clock.

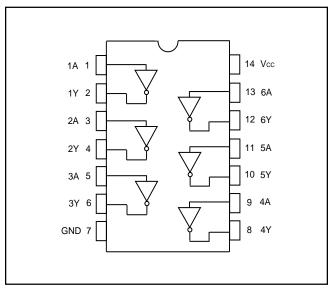


Fig. 1-2. IC902 Block Diagram

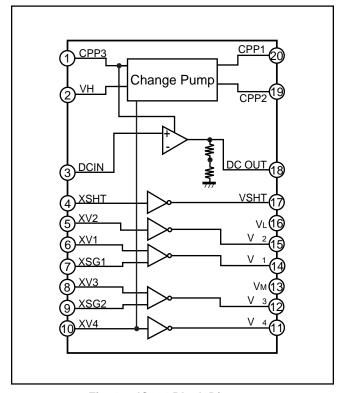


Fig. 1-3. IC904 Block Diagram

4. IC905 (CDS, AGC Circuit and A/D converter)

The video signal which is output from the CCD is input to Pins (26) and (27) of IC905. There are S/H blocks inside IC905 generated from the XSHP and XSHD pulses, and it is here that CDS (correlated double sampling) is carried out.

After passing through the CDS circuit, the signal passes through the AGC amplifier. It is A/C converted internally into a 10-bit signal, and is then input to IC102 of the CA2 circuit board. The gain of the AGC amplifier is controlled by the voltage at pin (29) which is output from IC102 of the CA2 circuit board and smoothed by the PWM.

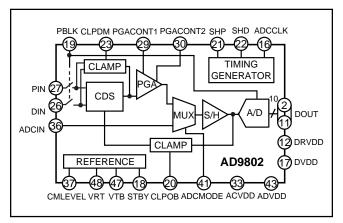


Fig. 1-4. IC905 Block Diagram

5. Transfer of Electric Charge by the Horizontal CCD

The transfer system for the horizontal CCD emplays a 2-phase drive method.

The electric charges sent to the final stage of the horizontal CCD are transferred to the floating diffusion, as shown in Fig. 1-5. RG is turned on by the timing in (1), and the floating diffusion is charged to the potential of PD. The RG is turned off by the timing in (2). In this condition, the floating diffusion is floated at high impedance. The H1 potential becomes shallow by the timing in (3), and the electric charge now moves to the floating diffusion.

Here, the electric charges are converted into voltages at the rate of V = Q/C by the equivalent capacitance C of the floating diffusion. RG is then turned on again by the timing in (1) when the H1 potential becomes deep.

Thus, the potential of the floating diffusion changes in proportion to the quantity of transferred electric charge, and becomes CCD output after being received by the source follower. The equivalent circuit for the output circuit is shown in Fig. 1-6.

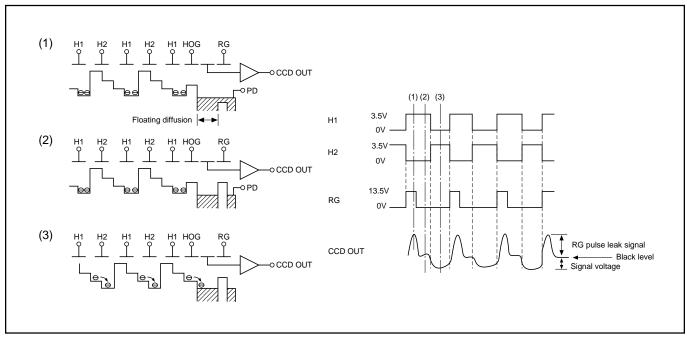


Fig. 1-5. Horizontal Transfer of CCD Imager and Extraction of Signal Voltage

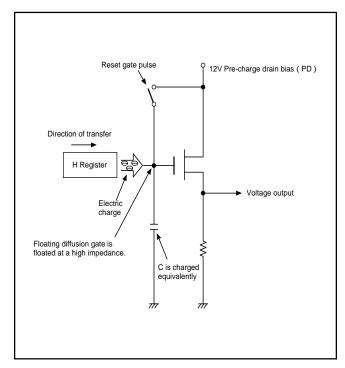


Fig. 1-6. Theory of Signal Extraction Operation

1-2. CA2 CIRCUIT DESCRIPTION

1. Circuit Description

1-1. Scannning converter (Interlace converter)

This circuit uses the function of a 64-Mbit SDRAMs to convert the non-interlaced signal which is output from the CCD into an interlaced signal for the video monitor.

1-2. Camera signal processor

This comprises circuits such as the digial clamp circuit, white balance circuit, circuit, color signal generation circuit, matrix circuit and horizontal aperture circuit.

1. Digital clamp circuit

The optical black section of the CCD extracts 16-pixel averaged values from the subsequent data to make the black level of the CCD output data uniform for each line. The 16-pixel averaged value for each line is taken as the sum of the value for the previous line multiplied by the coefficient k and the value for the current line multiplied by the coefficient 1-k.

2. White balance circuit

This circuit controls the white balance by using the AWB judgement value computed by the CPU to control the gain for each R, G and B pixel based on the CCD data which has been read.

3. circuit

This circuit performs (gamma) correction in order to maintain a linear relationship between the light input to the camera and the light output from the picture screen.

4. Color generation circuit

This circuit converts the CCD data into RGB signals.

5. Matrix circuit

This circuit generates the Y signals, R-Y signals and B-Y signals from the RGB signals.

6. Horizontal aperture circuit

This circuit is used generate the aperture signal.

1-3. SDRAM controller

This circuit outputs address, RAS, CAS and AS data for controlling the SDRAM. It also refreshes the SDRAM.

1-4. PIO

The expansion parallel port can be used for functions such as stroboscope control and LCD driver control.

1-5. SIO (Serial control)

This is the interface for the 8-bit microprocessor.

1-6. TG, SG block

This is the timing generation circuit which generates the clocks (vertical transfer clock and electronic shutter clock) which drive the CCD.

1-7. 8-bit D/A circuit (Audio)

This circuit converts the audio signals (analog signals) from the microphone to 8-bit digital signals.

1-8. 8-bit A/D circuit (Audio)

The audio signals which were converted to digial form by the 8-bit A/D circuit are temporarily to a sound buffer and then recorded in the SSFDC card. During playback, the 8-bit D/A circuit converts these signals into analog audio signals.

1-9. Sound buffer

Audio memory

1-10. LCD driver

The Y/C signals which are input to the LCD driver are converted to RGB signals, and the timing signal which is necessary for LCD monitor display and the RGB signals are then supplied to the LCD monitor.

1-11. LCD monitor

This is the image display device which displays the image signals supplied from the LCD driver.

1-12. UART

This circuit is used for transmitting serial data to a PC. The interface is RS-232C-compatible.

1-13. SSFDC control

This reads data from the SSFDC card and stores it in SDRAM, and writes out the image data stored in SDRAM. In addition, error correction is carried out when the data is read.

1-14. MJPEG compression

Still and continuous frame data is converted to JPEG format, and movie images are compressed and expanded in MJPEG format.

2. Outline of Operation

When the shutter opens, the reset signals, TEST0, TEST1 and the serial signals ("take a picture" commands) from the 8-bit microprocessor are input and record operation starts. When the TG drives the CCD, picture data passes through the A/D and is then input to the ASIC as 10-bit data. This data then passes through the DCLP, AWB, shutter and after which it is input to the SDRAM. The AWB, shutter, and AGC value are computed from this data, and two exposures are made to obtain the optimum picture. The data which has already been stored in the SDRAM is read by the CPU and color generation is carried out. Each pixel is interpolated from the surrounding data as being either R, G or B primary color data to produce R, G and B data. At this time, correction of the lens distortion which is a characteristic of wide-angle lenses is carried out. Aperture correction is carried out, and in case of still picture the data is then compressed by the JPEG method and in case of picture it is compressed by MJPEG method and is written to SSFDC card. When the data is to be output to an external device, it is read JPEG picture data from the SSFCD card and output to PC via the UART.

3. LCD Block

During EE, gamma conversion is carried out for the 10-bit RGB data which is input from the A/D conversion block of the CCD to the ASIC in order that the revised can be displayed on the video. The YUV of 640 x 480 is then transferred to the SVRAM.

The data which has accumulated in the SDRAM is after D/A conversion is carried out by SDRAM control circuit inside the ASIC , makes Y/C signal, the data is sent to the LCD panel and displayed.

If the shutter button is pressed in this condition, the 10-bit data which is output from the A/D conversion block of the CCD is sent to the SDRAM (DMA transfer), and is displayed on the LCD as a freeze-frame image.

During playback, the JPEG image data which has accumulated in the SSFDC card is converted to RGB signals. In the same way as for EE, the data is then sent to the SDRAM, after which D/A conversion is carried out inside the ASIC, and then the data is sent to the LCD panel and displayed.

The LCD driver is converted Y/C signals to RGB signals from ASIC, and these RGB signals and the control signal which is output by the LCD driver are used to drive the LCD panel. The RGB signals are 1H transposed so that no DC component is present in the LCD element, and the two horizontal shift register clocks drive the horizontal shift registers inside the LCD panel so that the 1H transposed RGB signals are applied to the LCD panel.

Because the LCD closes more as the difference in potential between the VCOM (common polar voltage: fixed at DC) and the R, G and B signals becomes greater, the display becomes darker; if the difference in potential is smaller, the element opens and the LCD become brighter. In addition, the brightness and contrast settings for the LCD can be varied by means of the serial data from the ASIC.

1-3. PW1 POWER CIRCUIT DESCRIPTION

1. Outline

This is the main power circuit, and is comprised of the following blocks.

Switching controller (IC501)

Digital and analog system and LCD 5.0 V system power output (L5010, Q5002, D5013, C5061)

Digital 3.3 V system power supply (L5017, Q5009, D5007, C5062)

Analog and LCD system power supply (Q5007, T5001) Backlight power supply output (L5005, Q5008, D5014, C5005)

2. Switching Controller (IC501)

This is the basic circuit which is necessary for controlling the power supply for a PWM-type switching regulator, and is provided with four built-in channels, only CH1 (digital 3.3 V), CH2 (5 V system), CH3 (analog and LCD system) and CH4 (backlight system) are used. Feedback from 3.3 V (D) (CH1), 5.0 V (D) (CH2), +15.0 V (A), +12.4 V (L) (CH3) and 5.8 V (L) (CH4) power supply outputs are received, and the PWM duty is varied so that each one is maintained at the correct voltage setting level.

2-1. Short-circuit protection circuit

If output is short-circuited for the length of time determined by the condenser which is connected to Pin (17) of IC501, all output is turned off. The control signal (P ON, P(A) ON and LCD ON) are recontrolled to restore output.

3. Digital 3.3 V Power Output

 $3.3\ V\ (D)$ is output. Feedback for the $3.3\ V\ (D)$ is provided to the switching controller (Pins (1) of IC501) so that PWM control can be carried out.

4. 5 V System Power Output

5 V (D), 5.1 V (A) and 5 V (L) are output. Feedback for the 5 V (D) is provided to the switching controller (Pin (12) of IC501) so that PWM control can be carried out.

5. Analog and LCD System Power Output

15.0 V (A), -7.5 V (A), 12.4 V (L) and 15 V (L) are output. Feedback for the 15.0 V (A) with view mode and 12.4 V (L) with play mode is provided to the switching controller (Pin (25) of IC501) so that PWM control can be carried out.

6. Backlight Power Supply output

5.8 V (L) is output. Feedback is sent to pins (36) of the switching controller (IC501) for PWM control to be carried out.

1-4. PW1 STROBE CIRCUIT DESCRIPTION

1. Charging Circuit

When UNREG power is supplied to the charge circuit and the CHG signal becomes High (3.3 V), the charging circuit starts operating and the main electorolytic capacitor is charged with high-voltage direct current.

However, when the CHG signal is Low (0 V), the charging circuit does not operate.

1-1. Power switch

When the CHG signal switches to Hi, Q5406 turns ON and the charging circuit starts operating.

1-2. Power supply filter

L5401 and C5401 constitute the power supply filter. They smooth out ripples in the current which accompany the switching of the oscillation transformer.

1-3. Oscillation circuit

This circuit generates an AC voltage (pulse) in order to increase the UNREG power supply voltage when drops in current occur. This circuit generates a drive pulse with a frequency of approximately 50-100 kHz. Because self-excited light omission is used, the oscillation frequency changes according to the drive conditions.

1-4. Oscillation transformer

The low-voltage alternating current which is generated by the oscillation control circuit is converted to a high-voltage alternating current by the oscillation transformer.

1-5. Rectifier circuit

The high-voltage alternating current which is generated at the secondary side of T5401 is rectified to produce a highvoltage direct current and is accumulated at electrolytic capacitor C5412 on the main circuit board.

1-6. Voltage monitoring circuit

This circuit is used to maintain the voltage accumulated at C5412 at a constance level.

After the charging voltage is divided and converted to a lower voltage by R5417 and R5419, it is output to the SY1 circuit board as the monitoring voltage VMONIT. When this VMONIT voltage reaches a specified level at the SY1 circuit board, the CHG signal is switched to Low and charging is interrupted.

2. Light Emission Circuit

When RDY and TRIG signals are input from the ASIC expansion port, the stroboscope emits light.

2-1. Emission control circuit

When the RDY signal is input to the emission control circuit, Q5409 switches on and preparation is made to let current flow to the light emitting element. Moreover, when a STOP signal is input, the stroboscope stops emitting light.

2-2. Trigger circuit

When a TRIG signal is input to the trigger circuit, D5405 switches on, a high-voltage pulse of several kilovolts is generated inside the trigger circuit, and this pulse is then applied to the light emitting part.

2-3. Light emitting element

When the high-voltage pulse form the trigger circuit is applied to the light emitting part, currnet flows to the light emitting element and light is emitted.

Beware of electric shocks.

1-5. SY1 CIRCUIT DESCRIPTION

1. Configuration and Functions

For the overall configuration of the SY1 circuit board, refer to the block diagram. The configuration of the SY1 circuit board centers around a 8-bit microprocessor (IC301).

The 8-bit microprocessor handles the following functions.

1. Operation key input, 2. Mode LCD display, 3. Clock control, 4. Power ON/OFF, 5. Storobe charge control

Cierra-I	1/0		
-			
	I	Strobe charge voltage input (analog input)	
	-	-	
	I		
	-	- ·	
<u> </u>			L : LED light
	0		L : LED light
	-		
` ,	0	Self-timer LED (red) ON/OFF signal	L : LED light
	-	<u>-</u>	
	0	A/D standard power ON/OFF signal	L : ON
NOT USED	-	-	
CHG ON	0	Flash charge ON/OFF signal	H : ON
NOT USED	-	-	
VSS	-	GND	
NOT USED	-	-	
P (A) ON	0	DC/DC converter (analog) ON/OFF signal	H : ON
P ON	0	DC/DC converter (digital) ON/OFF signal	H : ON
DIN CONNECT	I	DIN jack connect detection signal	L : Connection
NOT USED	-	-	
AV JACK	I	AV output cable connection detection signal	L : Connection
SI	I	Serial communication data input (←ASIC)	
SO	0	Serial communication data output (→ASIC)	
SCK	0	Serial communication clock output (→ASIC)	
IC	-	Connect to Vss	
XOUT	0	Main clock oscillation terminal (4 MHz)	
XIN	I	Main clock oscillation terminal	
VDD	-	Power supply terminal	
XCIN	ı	Sub clock oscillation terminal (32.768 kHz)	
XCOUT	0	Sub clock oscillation terminal	
RESET	I	Reset input	
BAT OFF	ı	Battery OFF detection signal	L:OFF
RXD	I	RS-232C RXD input terminal	
S. REQ	I	Serial communication request signal	L : Request
NOT USED	-	-	·
SCAN OUT 0~2	0	Key matrix output	
NOT USED	-	-	
LCD ON	0	LCD monitor power ON/OFF signal	H : ON
ASIC TEST 0	0	ASIC reset control signal	
ASIC RESET	0	ASIC reset signal	L : Reset output
	0		·
AVSS	-	A/D converter GND power terminal	
• • • • • • • • • • • • • • • • • • • •	NOT USED VSS NOT USED P (A) ON P ON DIN CONNECT NOT USED AV JACK SI SO SCK IC XOUT XIN VDD XCIN XCOUT RESET BAT OFF RXD S. REQ NOT USED SCAN OUT 0~2 NOT USED LCD ON ASIC TEST 0 ASIC RESET ASIC TEST 1	CHG VOL I NOT USED - SCAN IN 0~4 I AVDD - AVREF I STBY (R) LED O STBY (G) LED O VSS - SELF LED (R) O NOT USED - CHG ON O NOT USED - VSS - NOT USED - XUN O XIN O XIN I XOUT O XIN I XCOUT O XIN I XCOUT O RESET I BAT OFF I RXD I S. REQ I NOT USED - SCAN OUT 0~2 O NOT USED - LCD ON O ASIC TEST 0 ASIC TEST 0	CHG VOL NOT USED SCAN IN 0-4 I Key matrix input AVDD AVDD AVD converter analog power terminal AVREF I A/D converter standard voltage input terminal STBY (R) LED O Standby LED (red) ON/OFF signal STBY (G) LED O Standby LED (green) ON/OFF signal VSS - GND SELF LED (R) NOT USED AVREF ON NOT USED CHG ON O Flash charge ON/OFF signal NOT USED VSS - GND NOT USED NOT USED CHG ON O DC/DC converter (analog) ON/OFF signal NOT USED P (A) ON O DC/DC converter (digital) ON/OFF signal NOT USED AV JACK I AV output cable connection detection signal SI I Serial communication data input (←ASIC) SCK O Serial communication data output (→ASIC) SCK O Serial communication terminal VDD - Power supply terminal XCIN I Reset input BAT OFF I Battery OFF detection signal RXD I RS-232C RXD input terminal SCAN OUT 0-2 O Key matrix output ASIC reset control signal ASIC TEST I O ASIC reset control signal ASIC TEST 1 O ASIC reset control signal

Table 4-1. 8-bit Microprocessor Port Specification

2. Internal Communication Bus

The SY1 circuit board carries out overall control of camera operation by detecting the input from the keyboard and the condition of the camera circuits. The 8-bit microprocessor reads the signals from each sensor element as input data and outputs this data to the camera circuits (ASIC) or to the LCD display device as operation mode setting data. Fig. 4-1 shows the internal communication between the 8-bit microprocessor and ASIC.

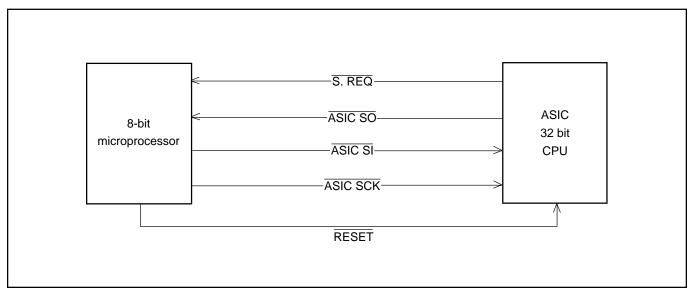


Fig. 4-1 Internal Bus Communication System

3. Key Operaiton

For details of the key operation, refer to the instruction manual.

SCAN IN OUT	0	1	2	3	4
0	A	◀	•	▼	MACRO
1	SHUTTER 1st	SHUTTER 2nd	CAMERA	PLAY	-
2	BARRIER	CARD LID	MODE	SET	TEST

Table 4-2. Key Operation

4. Power Supply Control

The 8-bit microprocessor controls the power supply for the overall system.

The following is a description of how the power supply is turned on and off. When the battery is attached, a regulated 3.3 V voltage is normally input to the 8-bit microprocessor (IC301) by IC303, so that clock counting and key scanning is carried out even when the power switch is turned off, so that the camera can start up again. When the battery is removed, the 8-bit microprocessor operates in sleep mode using the backup capacitor. At this time, the 8-bit microprocessor only carries out clock counting, and waits in standby for the battery to be attached again. When a switch is operated, the 8-bit microprocessor supplies power to the system as required.

The 8-bit microprocessor first sets both the \overline{P} (A) \overline{ON} signal at pin (70) and the \overline{P} \overline{ON} signal at pin (71) to low, and then turns on the DC/DC converter. After this, High signals are output from pin (97) so that the ASIC is set to the active condition. If the LCD monitor is on, the \overline{LCD} \overline{ON} signal at pin (95) set to Low, and the DC/DC converter for the LCD monitor is turned on.

		ASIC, memory	RS232C driver	CCD	8bit CPU	MODE LCD	LCD MONITOR
Power voltage		3.3 V	3.3 V	5 V (A), -7.5 V, +15 V etc.	3.2 V (ALWAYS)	3.2 V (ALWAYS)	5V (L), 15 V, +12V etc.
	Lens cover close	OFF	OFF	OFF	32KHz	OFF	OFF
	Power switch ON- Auto power down	OFF	OFF	OFF	4MHz	ON	OFF
Lens cover	Shutter switch ON	ON	ON	ON OFF	4MHz	ON	OFF
open	Resolution, Flash, Self timer switch ON	OFF	OFF	OFF	4MHz	ON	OFF
	LCD finder	ON	ON	ON	4MHz	ON	ON
	Playback	ON	ON	OFF	4MHz	ON	ON

Table 4-3. Camera Mode (Battery Operation)

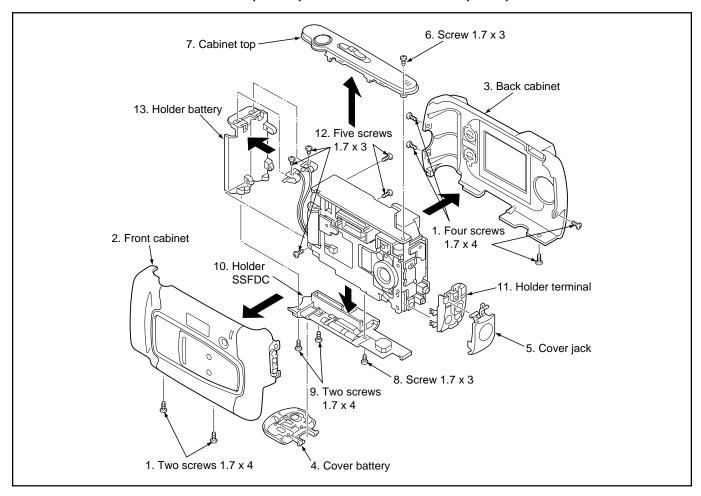
		ASIC, memory	RS232C Driver	CCD	8bit CPU	MODE LCD	LCD MONITOR
	Power voltage		3.3 V	5 V (A), -7.5 V, +12 V etc.	3.2 V (ALWAYS)	3.2 V (ALWAYS)	5 V (L) +12V etc.
	Lens cover close	OFF	OFF	OFF	32 KHz	OFF	OFF
	Power switch ON- Auto power down	OFF	OFF	OFF	4 MHz	ON	OFF
	Take a picture	ON	ON	ON OFF	4 MHz	ON	OFF
Lens cover	Erase image	ON	ON	OFF	4 MHz	ON	OFF
open	Download image	ON	ON	OFF	4 MHz	ON	OFF
_	Continuous image	ON	ON	ON	4 MHz	ON	OFF
	Message from host	ON	ON	ON	4 MHz	ON	OFF

Note) P. SAVE = Power save mode, 4 MHz = Main clock operation, 32 kHz = Sub clock operation

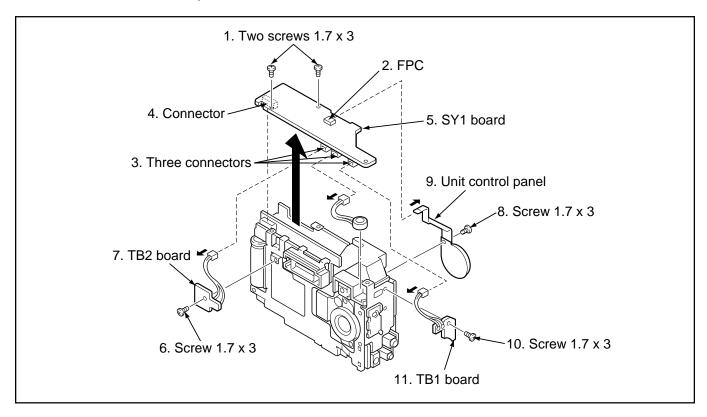
Table 4-4. Host Mode (Battery Operation)

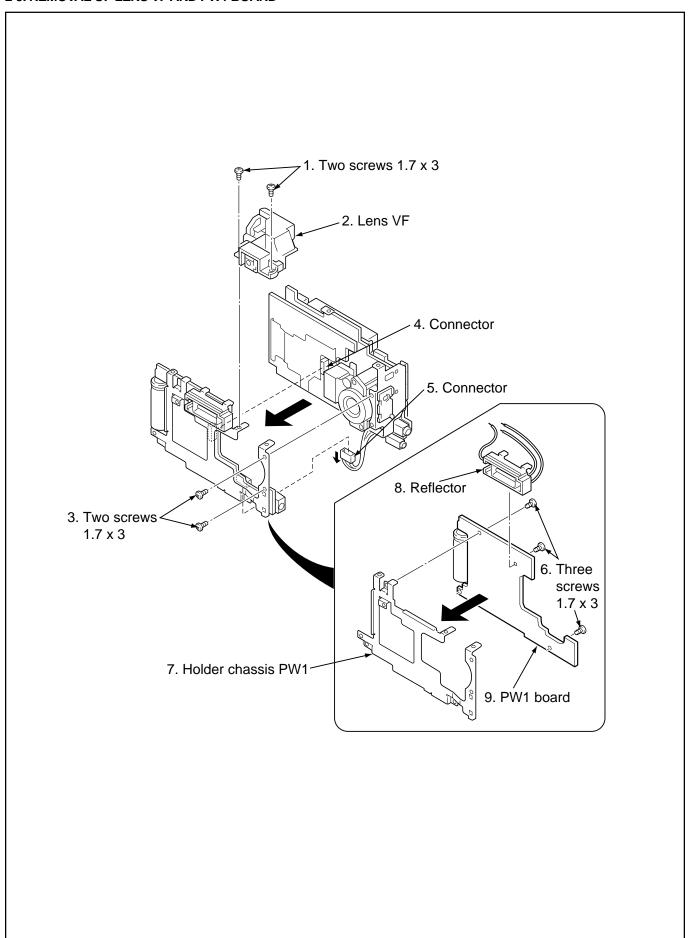
2. DISASSEMBLY

2-1. REMOVAL OF CABINET ASSEMBLY (FRONT) AND CABINET ASSEMBLY (BACK)

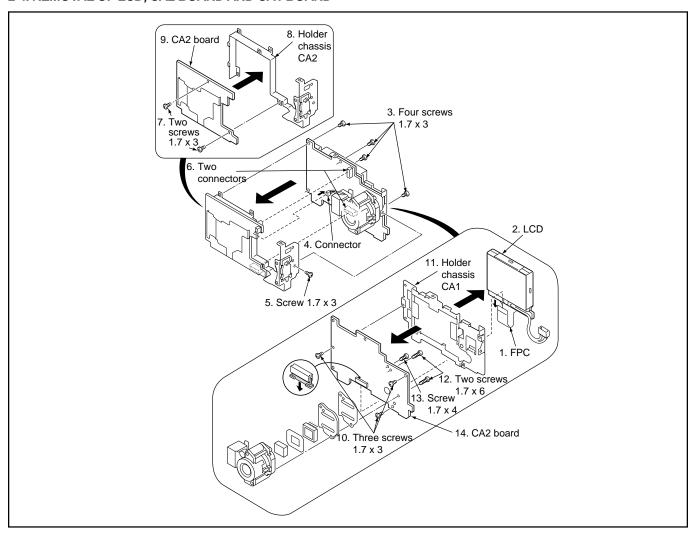


2-2. REMOVAL OF SY1 BOARD, TB2 BOARD AND TB1 BOARD

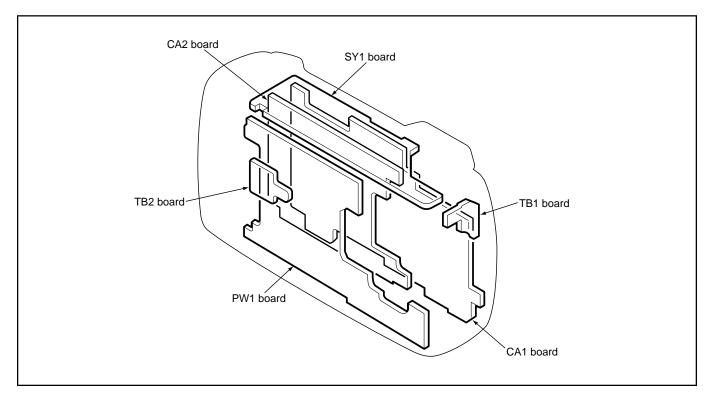




2-4. REMOVAL OF LCD, CA2 BOARD AND CA1 BOARD



2-5. BOARD LOCATION



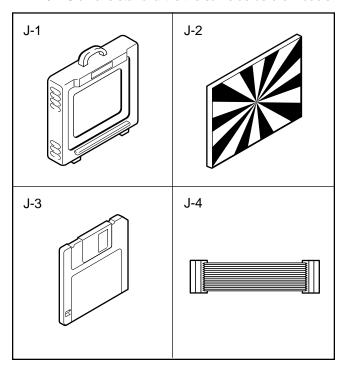
3. ELECTRICAL ADJUSTMENT

3-1. Table for Servicing Tools

Ref. No.	Name	Part code
J-1	Color viewer 5,100 K	VJ8-0007
J-2	Siemens star chart	
J-3	Calibration software	VJ8-0166
J-4	Extension cord	VJ8-0151

Note: J-1 color viewer is 100 - 110 VAC only.

J-2 Siemens star chart is the same as before models.



3-2. Equipment

- 1. Oscilloscope
- 2. Digital voltmeter
- 3. AC adaptor
- 4. IBM®-compatible PC
- 5. DC regulated power supply

3-3. Adjustment Items and Order

- 1. IC501 Frequency Adjustment
- 2. 5.0 V (D) Voltage Adjustment
- 3. 3.3 V (D) Voltage Adjustment
- 4. 12.4 V (L) Voltage Adjustment 1
- 5. 12.4 V (L) Voltage Adjustment 2
- 6. 5.8 V (L) Voltage Adjustment
- 7. CCD Defect Defect Adjustment
- 8. AWB Adjustment
- 9. Flange-back Adjustment
- 10. LCD Panel Adjustment
 - 10-1. LCD H AFC Adjustment
 - 10-2. LCD RGB Offset Adjustment
 - 10-3. LCD Gain Adjustment
 - 10-4. LCD Blue Brightness Adjustment
 - 10-5. LCD Red Brightness Adjustment

3-4. Setup

1. System requirements

Windows 95 or 98

IBM®-compatible PC with 486 or higher processor CD-ROM drive

3.5-inch high-density diskette drive

Serial port with standard RS-232C interface

8 MB RAM

Hard disk drive with at least 15 MB available

VGA or SVGA monitor with at least 256-color display

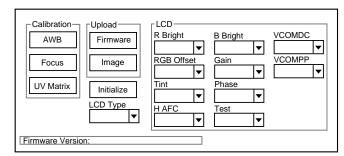
2. Installing calibration software

- Insert the calibration software installation diskette into your diskette drive.
- 2. Open the explorer.
- 3. Copy the DSC Cal folder on the floppy disk in the FD drive to a folder on the hard disk.

3. Color Viewer

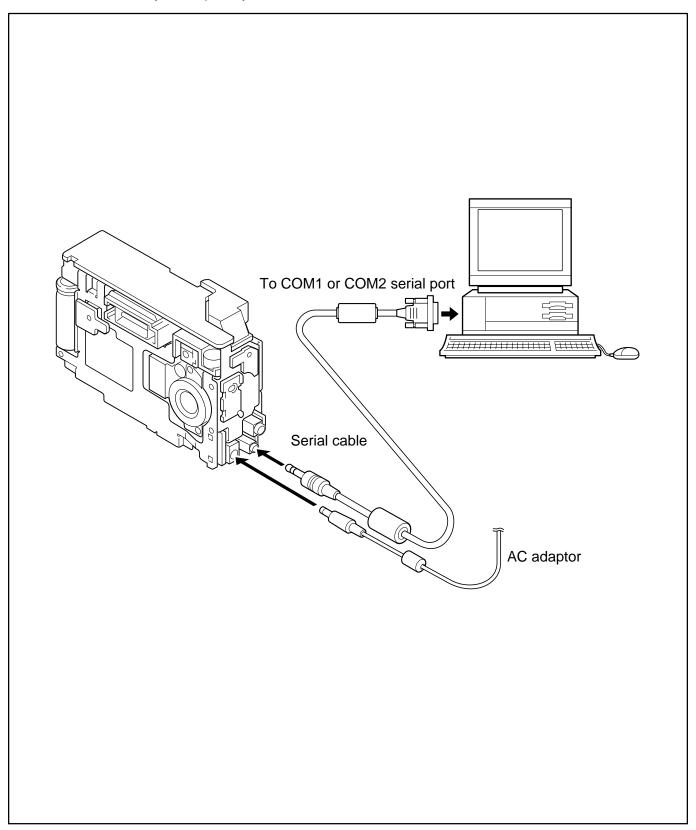
Turn on the switch and wait for 30 minutes for aging to take place before using Color Pure.

4.Computer screen during adjustment



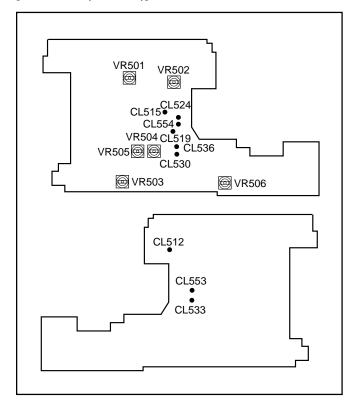
3-5. Connecting the camera to the computer

- 1. Turn off both camera and computer.
- 2. Locate the port cover on the side of the camera. Press on the arrows and slide the cover down to open it.
- 3. Line up the arrow on the cable connector with the notch on the camera's serial port. Insert the connector.
- 4. Locate a serial port on the back of your computer. You may have two serial ports labeled COM1 and COM2, or the ports may be labeled with icons. If you have two serial ports available, use port 1 to connect your camera.
- 5. Line up the serial connector on the cable with one of the serial ports on your computer, and insert the connector.
- 6. Turn on the camera and your computer system.



3-6. Adjust Specifications

[PW1 board (Side A/B)]



Note:

- 1. Voltage adjustment is necessary to repair in the PW1 board and replace the parts.
- 2. Power voltage set about +3.0 V.

Preparation:

- 1. Connect CN103 on the CA2 board and CN502 on the PW1 board with extension cord.
- 2. Open the barrier switch.
- 3. Set the view mode, and turn on the LCD.
- 4. Carry out initialization and display the through image on the LCD screen.

1. IC501 Oscillation Frequency Adjustment

Measuring Point	CL512
Measuring Equipment	Frequency counter
ADJ. Location	VR501
ADJ. Value	200 ± 1 kHz

Adjustment method:

1. Adjust with VR501 to 200 \pm 1 kHz.

2. 5.0 V (D) Voltage Adjustment

Measuring Point	CL515
Measuring Equipment	Digital voltmeter
ADJ. Location	VR503
ADJ. Value	5.10 ± 0.05 V

Adjustment method:

1. Adjust with VR503 to 5.10 \pm 0.05 V.

3. 3.3 V (D) Voltage Adjustment

Measuring Point	CL533 or CL553 or CL519
Measuring Equipment	Digital voltmeter
ADJ. Location	VR502
ADJ. Value	3.30 ± 0.03 V

Adjustment method:

1.Adjust with VR502 to 3.30 \pm 0.03 V.

4. 12.4 V (L) Voltage Adjustment 1

Measuring Point	CL524 or CL554
Measuring Equipment	Digital voltmeter
ADJ. Location	VR505
ADJ. Value	12.40 ± 0.05 V

Adjustment method:

- 1. Set the play mode.
- 2. Adjust with VR505 to 12.40 \pm 0.05 V.

5. 12.4 V (L) Voltage Adjustment 2

Measuring Point	CL524 or CL554
Measuring Equipment	Digital voltmeter
ADJ. Location	VR504
ADJ. Value	12.40 ± 0.05 V

Adjustment method:

- 1. Set the view mode, and turn on the LCD.
- 2. Adjust with VR504 to 12.40 ± 0.05 V.

6. 5.8 V (L) Voltage Adjustment

Measuring Point	CL530 or CL536
Measuring Equipment	Digital voltmeter
ADJ. Location	VR506
ADJ. Value	5.80 ± 0.05 V

Adjustment method:

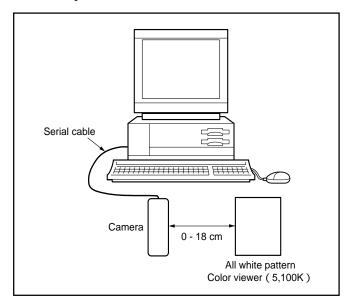
1. Adjust with VR506 to 5.80 \pm 0.05 V.

7. CCD Defect Detect Adjustment

Adjustment method:

- Set the camera mode, and turn on the power switch to open the lens cover.
- 2. Double-click on the DscCalV123b.
- 3. Select CCD Defect on the LCD "Test", and click the "Yes".
- 4. After the adjustment is completed, OK will display.
- 5. Close the lens cover.

8. AWB Adjustment

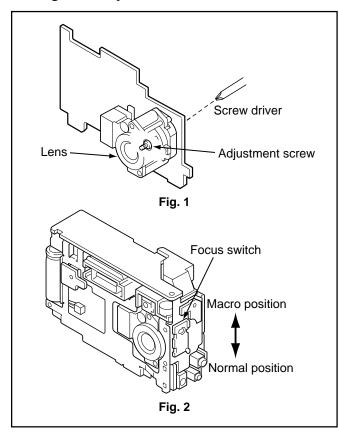


Preparation:

POWER switch: ON Adjusting method:

- Set the all white pattern so that it becomes a full picture.
 (Do not enter any light.)
- 2. Double-click on the DscCalV123b.
- 3. Click the AWB, and click the Yes.
- 4. AWB adjustment value will appear on the screen.
- 5. Click the OK.

9. Frange-back Adjustment



Preparation:

POWER switch: ON **Adjusting location:**

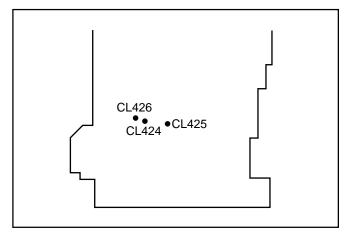
Flange-back adjustment screw (Fig. 1)

Adjust the adjustment screw by turning it through the hole provided in the CA1 board. If this adjustment screw is turned counter-clockwise, the focal length of the lens will decrease, and if it is turned clockwise, the focal length will increase.

Adjustment method:

- 1. Display the image taken by the camera on the screen of a computer.
- 2. Set the focus switch at the normal position.
- 3. Project two Siemens star charts at a distance of 1.0 meters and 0.3 meters infront of the lens.
- 4. Turn the adjustment screw until the Siemens star which is 1.0 meters away is exactly in focus. Check that the Siemens star which is 0.3 meters from the front of the lens is out of focus at this time.
- 5. Project the Siemens star chart at a distance of 0.3 meters in front of lens. Check that it is out of focus at normal mode, and it is in focus at macro mode.
- This adjustment location is integrated with the iris mechanism. After adjusting, make sure that no load has been placed on the iris mechanism and harness.

10. LCD Panel Adjustment [CA1 board (Side B)]

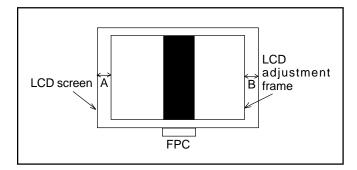


10-1. LCD H AFC Adjustment

Preparation:

POWER switch: ON **Adjusting method:**

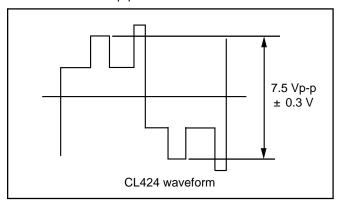
- 1. Double-click on the DscCalV123b.
- 2. Select 0 on the LCD "H AFC".
- 3. While watching the LCD monitor, adjust "H AFC" so that the edge of the LCD adjustment frame are the same distance from the left and right edge of the LCD screen. (A = B)



10-2. LCD RGB Offset Adjustment

Adjusting method:

1. Adjust LCD "RGB offset" so that the amplitude of the CL424 waveform is 7.5 Vp-p ± 0.3 V.



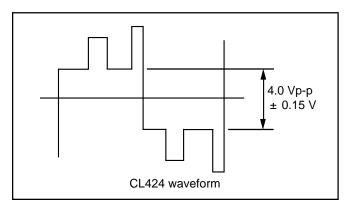
10-3. LCD Gain Adjustment

Adjusting method:

1. Adjust LCD "Gain" so that the amplitude of the CL424 waveform is 4.0 Vp-p \pm 0.15 V.

Note:

10-2. LCD RGB Offset adjustment should always be carried out first.

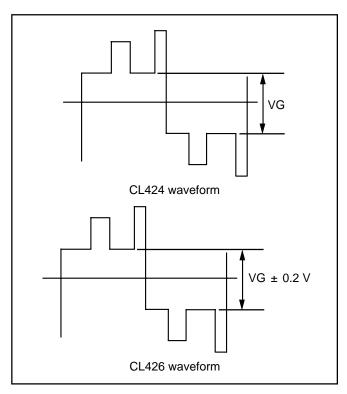


10-4. LCD Blue Brightness Adjustment Adjusting method:

1. Adjust LCD "B Bright" so that the amplitude of the CL426 waveform is \pm 0.2 V with respect to the CL424 (VG) waveform.

Note:

10-2. LCD RGB Offset adjustment and 10-3. LCD Gain adjustment should always be carried out first.



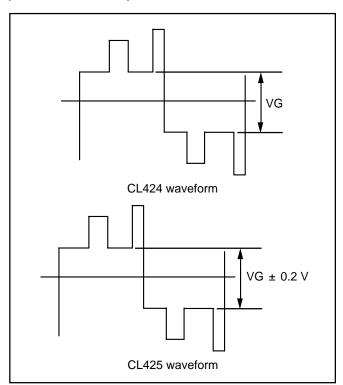
10-5. LCD Red Brightness Adjustment

Adjusting method:

 Adjust LCD "R Bright" so that the amplitude of the CL425 waveform is ± 0.2 V with respect to the CL424 (VG) waveform.

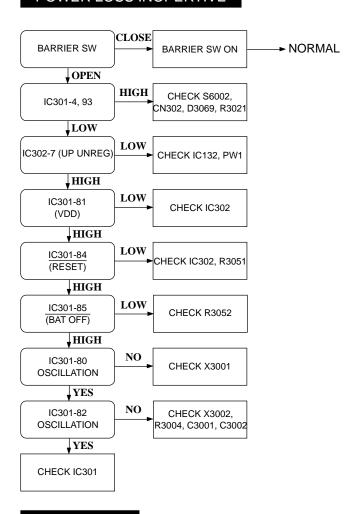
Note:

10-2. LCD RGB Offset adjustment and 10-3. LCD Gain adjustment should always be carried out first.

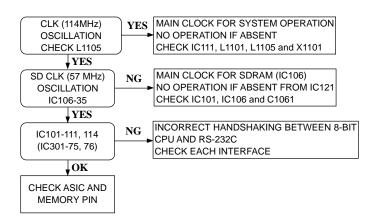


4. TROUBLESHOOTING GUIDE

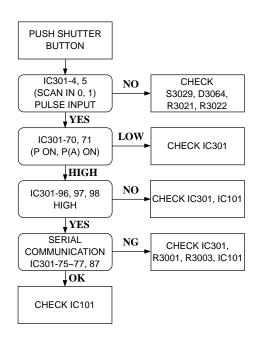
POWER LOSS INOPERTIVE



NO PICTURE



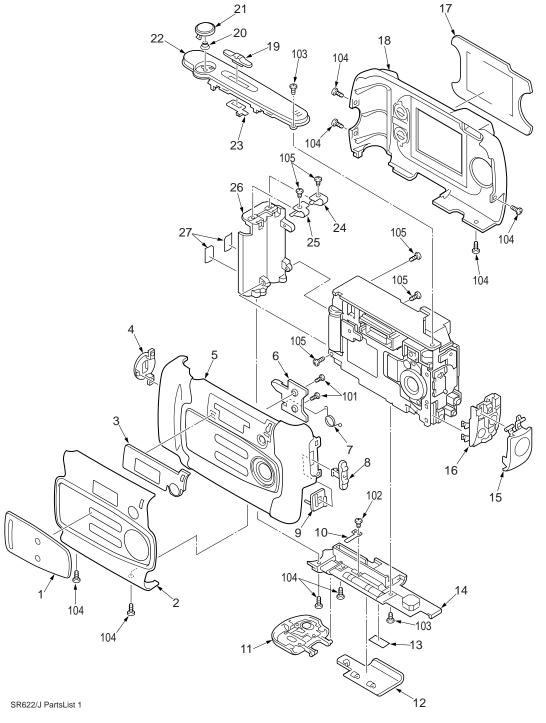
TAKING INOPERATIVE



5. PARTS LIST

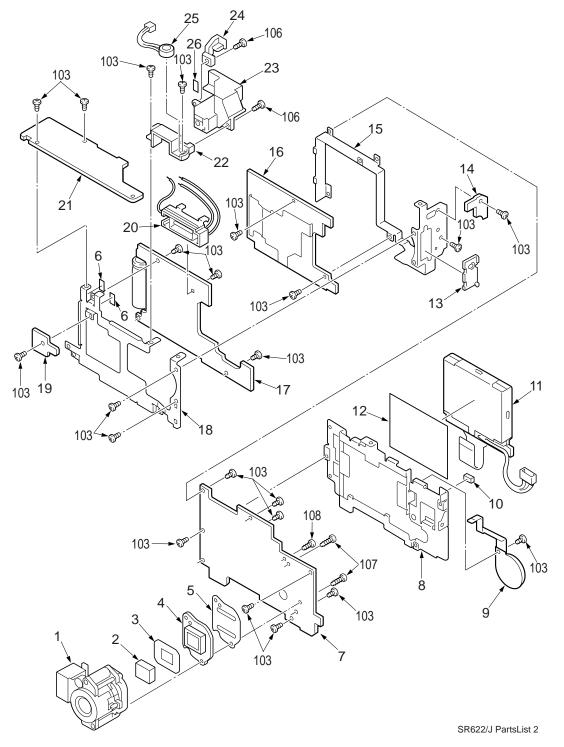
LOCATION	PARTS NO.	DESCRIPTION	LOCATION	PARTS NO.	DESCRIPTION
CABI 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	NET & CH 636 056 2479 636 055 5600 636 055 5785 636 055 5792 636 055 5946 636 055 5846 636 055 5921 636 055 5976 636 055 6010 636 055 5761 636 056 6460 636 055 5907 636 055 5747	ASSIS PARTS 1 ASSY,COVER LENS-SR662/E COVER FRONT-SR662/J DEC WINDOW VF-SR662/J DEC STRAP-SR662/J ASSY,CABI FRONT-SR662/J HOLDER COVER LENS-SR662/J SPRING LENS-SR662/J KNOB MACRO-SR662/J SLIDE KNOB MACRO-SR662/J SPRING P SSFDC-SR662/J COMPL,COVER BATTERY-662/J COVER SSFDC-SR662/J SHIELD TAPE SSFDC-SR662/J HOLDER SSFDC-SR662/J COVER JACK-SR662/J	16 17 18 19 20 21 22 23 24 25 26 27 101 102 103 104 105	636 055 5853 636 056 0956 636 055 9080 636 055 5938 636 057 0214 636 055 9042 636 055 9042 636 055 5990 636 055 6058 636 055 6065 636 055 5891 636 055 5891 636 055 4658 411 017 7508 411 178 8802 411 178 9403 411 177 8407	HOLDER TERMINAL-SR662/J DEC MONITOR-SR662/E ASSY,CABINET BACK-SR662/J KNOB POWER-SR662/J SPRING COMP RELEASE-662/J ASSY,BUTTON SHUTTER-662/J CABINET TOP-SR662/E SLIDE KNOB POWER-SR662/J TERMINAL BATTERY A-SR662/J TERMINAL BATTERY B-SR662/J HOLDER BATTERY-SR662/J LABEL CAUTION BATT-SX112/J SCR PAN PCS 1.4X2 SCR S-TPG PAN PCS 1.7X2.0 SCR PAN PCS 1.7X3 SCR S-TPG PAN PCS 1.7X4.0 SCR S-TPG PAN PCS 1.7X3

N.S.P.: Not available as service parts.



LOCATION	PARIS NO.	DESCRIPTION	LOCATION	PARIS NO.	DESCRIPTION
CABII 1 2 3 4 5 6 7 7 8 9 10 11 12 13 14 15	NET & CH. 645 029 2170 645 032 5854 636 052 2183 636 052 2190 636 052 2190 636 057 3093 636 055 4252 636 056 2431 636 055 5839 645 039 9732 636 056 1298 645 032 2167 636 055 9189 636 055 5983 636 055 5983 636 055 5983 636 055 5983	ASSIS PARTS 2 LENS(ASSY) OPTICAL FILTER SPACER ASSY,UNIT,CCD SPACER,INSULATOR SPACER,CHASSIS PW1-SR662J COMPL PWB,CA-1,VPC-X360 ONLY COMPL PWB,CA-1,EXCEPT VPC-X360 HOLDER CHASSIS CA1-662/J UNIT,CONTROL PANEL SPACER UNIT C.P-SR662/J LCD SPACER MONITOR BTM-662/J SLIDE MACRO-SR662/J COMPL PWB,TB-1 HOLDER CHASSIS CA2-662/J	16 16 17 18 19 20 21 22 23 24 25 26 103 106 107 108	636 055 4276 636 056 6705 636 055 4290 636 055 5822 636 055 4313 636 055 8892 636 055 4283 636 055 5877 645 023 4248 636 055 5952 645 030 0639 636 056 2615 411 175 5705 411 170 8602 411 169 9603 411 020 0701	COMPL PWB,CA-2,EXCEPT VPC-X360 COMPL PWB,CA-2,VPC-X360 ONLY COMPL PWB,PW-1 HOLDER CHASSIS PW1-662/J COMPL PWB,TB-2 COMPL,REFLECTOR COMPL PWB,SY-1 HOLDER VF-SR662/J ASSY,LENS,VF REFLECTOR VF-SR662/J MICROPHONE ADHESIVE TAPE VF-SR661/J SCR PAN PCS 1.7X3 SCR S-TPG PAN PCS 1.7X6E SCR PAN PCS 1.7X4

N.S.P.: Not available as service parts.



ELECTRICAL PARTS

Note:

1. Materials of Capacitors and Resistors are abbreviated as follows;

Resistors Capacitors MT-FILM **Metallized Film Resistor** MT-POLYEST **Metallized Polyester Capacitor MT-GLAZE Metallized Glaze Resistor** MT-COMPO **Metallized Composite Capacitor** OXIDE-MT **Oxide Metallized Film Resistor** TA-SOLD **Tantalum Solid Capacitor AL-SOLID Aluminum Solid Capacitor**

Non-Polarized Electrolytic Capacitor **NP-ELECT** Aluminum Solid Capacitors with Organic **OS-SOLID Semiconductive Electrolytic Capacitor**

DL-ELECT

Double Layered Electrolytic Capacitor

2. Tolerance of Capacitor (10pF over) and Resistor are noted with follow symboles.

F1% G2% J5% K10%

Z+80% ~ -20% M20% N30%

3. Capacitors

 $\textbf{U}:\, \mu\textbf{F}$ P: pF

4. Inductors

MH: mH

UH: μH 5. N.S.P.: Not available as service parts.

LOCATION	PARTS NO.	DESCRIPTION VPC-X360 ONLY EXCEPT VPC-X360 ORS) TR 2SD1819A-R TR 2SC4081-R TR DTC114EE TR 2SB1218A-R TR 2SA1576-R TR 2SD1819A-R TR 2SD1819A-R TR 2SC4081-R TR DTA144EUA TR 2SD1819A-R TR 2SC4081-R TR 2SC4399-4 TR 2SC4399-5 TR DTC114EUA TR WZ1N TR XP4601 TR 2SD1819A-R TR 2SC4081-R TR UMZ1N TR XP4601 TR 2SD1819A-R TR 2SC4081-R TR 1CUITS) IC LV4127W IC TK11245BM IC TC7SET08FU IC LMV821M7X IC LMV821M7X IC LMV821M7X IC T4VHC04MTC IC CXD1267AN IC AD9802JSTRL IC TK11331BM DIODE MA365 ZENER DIODE UDZ16B DIODE 1SS355 DIODE MA727 DIODE MA727 DIODE MA727 CES) OSC, CRYSTAL 4.433619MHZ.	LOCATION	PARTS NO.	DESCRIPTION	
COMPI	L PWB,CA-1		C1702	403 332 9503	CERAMIC	1U M 6.3V
	COC OFF 40F0	VDC V2C0 ONLV	C1703	403 311 4505	CERAMIC	1000P K 50V
	636 055 4252	VPC-A300 ONLT	C1705	403 312 6003	CERAMIC	39P J 50V
	636 056 2431	EXCEPT VPC-X300	C1706	403 319 3005	CERAMIC	220P J 25V
	(OFMICONDUCT	(0.00)	C1707	403 311 3409	CERAMIC	0.01U K 16V
0.4704	(SEMICONDUCT	URS)	C1708	403 207 0307	CERAMIC	1U Z 16V
Q1701	405 102 5609	TR 2SD1819A-R	C1709	403 157 7302	CERAMIC	6800P K 50V
OR	405 092 4101	TR 2SC4081-R	C1710	403 332 9503	CERAMIC	1U M 6.3V
Q1702	405 115 6907	IR DIC114EE	C1711	403 283 6309	CERAMIC	1U Z 10V
Q1707	405 102 5500	TR 2SB1218A-R	C1711	403 332 9503	CERAMIC	1U M 6.3V
OR	405 092 4200	TR 2SA1576-R	C1712	403 311 3409	CERAMIC	0.01U K 16V
Q2001	405 102 5609	TR 2SD1819A-R	C1714 C1715	403 311 3409	CERAMIC	0.010 K 16V 0.01U K 16V
OR	405 092 4101	TR 2SC4081-R	C1713	403 322 3504	CERAMIC	22U Z 10V
Q2002	405 131 3607	TR DTA144EUA	C1717	403 338 0405		
Q2003	405 102 5609	TR 2SD1819A-R	C1716 C1719	403 338 0405	CERAMIC	0.47U K 25V
OR	405 092 4101	TR 2SC4081-R	C1719		CERAMIC	0.47U K 25V
Q9001	405 079 6203	TR 2SC4399-4	C1720	403 338 0405	CERAMIC	0.47U K 25V
OR	405 079 6302	TR 2SC4399-5	C1721	403 338 0405	CERAMIC	0.47U K 25V
Q9002	405 133 8907	TR DTC114EUA	C1722	403 283 6309	CERAMIC	1U Z 10V
Q9007	405 129 2308	TR UMZ1N	C1723	403 332 9503	CERAMIC	1U M 6.3V
OR	405 106 4806	TR XP4601	C1724	403 309 8607	CERAMIC	18P J 50V,EXCEPT VPC-X360
Q9010	405 102 5609	TR 2SD1819A-R	C1724	403 311 4505	CERAMIC	1000P K 50V,VPC-X360 ONLY
OR	405 092 4101	TR 2SC4081-R	C1726	403 207 0307	CERAMIC	1U Z 16V
	(INTEGRATED C	IRCUITS)	C1727	403 332 9503	CERAMIC	1U M 6.3V
IC171	409 452 4206	IC LV4127W	C1729	403 311 3409	CERAMIC	0.01U K 16V
IC174	409 423 6802	IC TK11245BM	C1730	403 312 6805	CERAMIC	0.1U Z 16V
IC175	409 400 9109	IC TC7SET08FU	C1731	403 347 9406	CERAMIC	0.22U Z 10V
IC201	409 432 2505	IC LMV321M7X	C1739	403 327 0300	CERAMIC	10U Z 25V
IC202	409 432 2604	IC LMV821M7X	C1741	403 325 4409	CERAMIC	0.068U Z 16V
IC902	409 392 9101	IC 74VHC04MTC	C1742	403 347 9406	CERAMIC	0.22U Z 10V
IC904	409 366 9700	IC CXD1267AN	C1775	403 207 0307	CERAMIC	1U Z 16V
IC905	409 418 9702	IC AD9802.ISTRI	C1776	403 332 9503	CERAMIC	1U M 6.3V
IC909	409 407 0505	IC TK11331BM	C1777	403 334 3806	CERAMIC	10U K 6.3V
.0000	(DIODES)		C1778	403 332 8209	CERAMIC	10U M 16V
D1701	407 166 0606	DIODE MA365	C1779	403 332 9503	CERAMIC	1U M 6.3V
D9011	407 187 8407	ZENER DIODE UDZ16B	C2010	403 323 6306	CERAMIC	0.1U K 16V
D9019	407 149 0807	DIODE 188355	C2011	403 272 5603	CERAMIC	0.033U K 16V
D9020	407 198 9905	DIODE MA727	C2012	403 311 7704	CERAMIC	4700P K 25V
D9021	407 198 9905	DIODE MA727	C2014	403 332 9503	CERAMIC	1U M 6.3V
D9022	407 198 9905	DIODE MA727	C2015	403 332 9503	CERAMIC	1U M 6.3V
DUULL	(CRYSTAL DEVI	CES)	C2016	403 332 9503	CERAMIC	1U M 6.3V
X1701	645 025 6004	OSC,CRYSTAL 3.579545MHZ,VPC-X360 ONLY	C2017	403 155 2101	CERAMIC	1500P K 50V
X1701	645 030 0431	OSC,CRYSTAL 4.433619MHZ, EXCEPT VPC-X360 INDUCTOR,10U J INDUCTOR,10U J INDUCTOR,750 OHM INDUCTOR,750 OHM	C2018	403 332 9503	CERAMIC	1U M 6.3V
AIIOI	040 000 0401	EXCEPT VPC-X360	C2019	403 334 3806	CERAMIC	10U K 6.3V
	(INDUCTORS)	EXCELL ALCOHOL	C9003	403 315 6406	CERAMIC	180P J 25V
L1701	645 021 1607	INDUCTOR,10U J	C9004	403 320 5203	CERAMIC	0.33U K 16V
L1701	645 021 1607	INDUCTOR,100 J	C9005	403 207 0307	CERAMIC	1U Z 16V
L1702 L1703	645 020 1868	INDUCTOR,750 OHM	C9006	403 311 3409	CERAMIC	0.01U K 16V
L1703	645 020 2070	INDUCTOR,750 OHM	C9007	403 312 6805	CERAMIC	0.1U Z 16V
		INDUCTOR,750 OF IN	C9008	403 155 1807	CERAMIC	0.01U K 25V
L1705 L1706	645 020 1875 645 020 1868	INDUCTOR,1500 OHM INDUCTOR,750 OHM	C9010	403 320 5500	CERAMIC	1U Z 25V
			C9012	403 320 5500	CERAMIC	1U Z 25V
L1707	645 014 8064	INDUCTOR,120 OHM	C9013	403 311 3409	CERAMIC	0.01U K 16V
L1708	645 020 2070	INDUCTOR,750 OHM	C9014	403 311 7605	CERAMIC	2200P K 50V
L1709	645 020 2070	INDUCTOR,750 OHM	C9016	403 068 0409	CERAMIC	0.1U Z 25V
L9001	645 001 4512	INDUCTOR,10U K	C9018	403 311 3409	CERAMIC	0.01U K 16V
L9010	645 020 1875	INDUCTOR,1500 OHM	C9019	403 320 5500	CERAMIC	1U Z 25V
L9010	645 020 1882	INDUCTOR,1800 OHM	C9020	403 311 5809	CERAMIC	47P J 50V
04700	(CAPACITORS)	OFDAMIO 04117 4014	C9021	403 164 0204	CERAMIC	0.1U Z 25V
C1700	403 312 6805	CERAMIC 0.1U Z 16V				

LOCATION	PARTS NO.	DESCRIPTION	LOCATION	PARTS NO.	DESCRIPTION
C9022	403 312 6805	CERAMIC 0.1U Z 16V	R9019	401 225 2006	MT-GLAZE 680 JA 1/16W
C9022	403 320 5302	CERAMIC 0.10 Z 10V CERAMIC 0.15U K 25V	R9020	401 224 8900	MT-GLAZE
C9025	403 312 6805	CERAMIC 0.10 Z 16V	R9021	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
C9026	403 312 6805	CERAMIC 0.1U Z 16V	R9022	401 224 8900	MT-GLAZE 100K JA 1/16W
C9029	403 312 6805	CERAMIC 0.1U Z 16V	R9023	401 224 9907	MT-GLAZE 22K JA 1/16W
C9030	403 296 8000	TA-SOLID 22U M 10V	R9024	401 240 9004	MT-GLAZE 3.9 JA 1/16W
C9031	403 311 3409	CERAMIC 0.01U K 16V	R9025	401 226 1503	MT-GLAZE 0.000 ZA 1/16W
C9032	403 312 6805	CERAMIC 0.1U Z 16V	R9026	401 226 1503	MT-GLAZE 0.000 ZA 1/16W
C9033	403 312 6805	CERAMIC 0.1U Z 16V	R9027	401 226 1503	MT-GLAZE 0.000 ZA 1/16W
C9034	403 312 6805	CERAMIC 0.1U Z 16V	R9028	401 226 1503	MT-GLAZE 0.000 ZA 1/16W
C9035	403 325 7608	CERAMIC 1U K 16V	R9029	401 224 8801	MT-GLAZE 100 JA 1/16W
C9036	403 311 3409	CERAMIC 0.01U K 16V	R9031	401 225 1504	MT-GLAZE 3.9K JA 1/16W
C9037	403 283 6309	CERAMIC 1U Z 10V	R9032 R9033	401 262 1208	MT-GLAZE 82K DC 1/16W MT-GLAZE 33 JA 1/16W
C9038	403 283 6309	CERAMIC 1U Z 10V	R9033	401 225 0309 401 226 1503	MT-GLAZE 33 JA 1/16W MT-GLAZE 0.000 ZA 1/16W
C9039 C9040	403 311 3409 403 311 3409	CERAMIC 0.01U K 16V CERAMIC 0.01U K 16V	R9035	401 226 1503	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 0.000 ZA 1/16W
C9040	403 312 6805	CERAMIC 0.1U Z 16V	R9038	401 224 9402	MT-GLAZE
C9042	403 283 6309	CERAMIC 1U Z 10V	R9040	401 224 9006	MT-GLAZE 10K JA 1/16W
C9043	403 283 6309	CERAMIC 10 Z 10V	R9041	401 225 0200	MT-GLAZE 3.3K JA 1/16W
C9044	403 311 3409	CERAMIC 0.01U K 16V	R9042	401 224 9303	MT-GLAZE 1K JA 1/16W
C9046	403 312 6805	CERAMIC 0.1U Z 16V	R9050	401 226 1503	MT-GLAZE 0.000 ZA 1/16W
C9047	403 312 6805	CERAMIC 0.1U Z 16V	R9051	401 226 1503	MT-GLAZE 0.000 ZA 1/16W
C9048	403 296 1308	TA-SOLID 10U M 20V	R9052	401 226 1503	MT-GLAZE 0.000 ZA 1/16W
C9051	403 325 7608	CERAMIC 1U K 16V	R9071	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
C9052	403 320 5203	CERAMIC 0.33U K 16V	R9090	401 226 1503	MT-GLAZE 0.000 ZA 1/16W
C9059	403 315 6406	CERAMIC 180P J 25V	R9092	401 226 1503	MT-GLAZE 0.000 ZA 1/16W
C9060	403 315 6406	CERAMIC 180P J 25V	R9095	401 226 1503	MT-GLAZE 0.000 ZA 1/16W
C9061	403 315 6406	CERAMIC 180P J 25V		(SWITCHES)	
C9062	403 315 6406	CERAMIC 180P J 25V	S1701	645 034 1564	SWITCH,PUSH 1P-1T,
C9064	403 315 6406	CERAMIC 180P J 25V	S1702	645 034 1564	SWITCH,PUSH 1P-1T,
C9065	403 315 6406	CERAMIC 180P J 25V	11/474	(JACKS)	LACK BUICNE BOOK BO LACK
C9066	403 315 6406	CERAMIC 180P J 25V	JK171	645 031 0454	JACK,PHONE D2.6 , PC JACK
C9067	403 296 1308	TA-SOLID 10U M 20V	JK172	645 026 4757	JACK,PHONE D3.6 , AV JACK
C9080	403 315 6406	CERAMIC 180P J 25V	CN171	(CONNECTORS) 645 028 6087	SOCKET,FPC 24P (N.S.P)
C9081	403 190 4306	CERMAIC 0.1U K 25V	CN171	645 010 3261	PLUG,PWB-PWB 40P (N.S.P)
R1701	(RESISTORS) 401 224 9204	MT-GLAZE 15K JA 1/16W	CN172 CN901	645 036 7472	PLUG,PWB-PWB 50P (N.S.P)
R1701	401 258 6804	MT-GLAZE 15K DC 1/16W	CINOUI	(MISCELLANEO	
R1703	401 262 1406	MT-GLAZE 4.3K DC 1/16W	Y9001	636 057 2898	SPACER CA1-SR662/J
R1704	401 224 9204	MT-GLAZE 15K JA 1/16W	10001	000 001 2000	OF MODING ON CHOOLIG
			COMP	I PWR CA-2)
R1705	401 224 9006 401 262 0904	MT-GLAZE 10K JA 1/16W MT-GLAZE 27K DC 1/16W	COMP	L PWB,CA-2	
R1705 R1706	401 224 9006	MT-GLAZE 10K JA 1/16W MT-GLAZE 27K DC 1/16W MT-GLAZE 39K DC 1/16W	COMP	636 055 4276	EXCEPT VPC-X360
R1705 R1706 R1707 R1709	401 224 9006 401 262 0904 401 262 0706 401 262 2304	MT-GLAZE 10K JA 1/16W MT-GLAZE 27K DC 1/16W MT-GLAZE 39K DC 1/16W MT-GLAZE 1.0K DC 1/16W	COMP		
R1705 R1706 R1707 R1709 R1711	401 224 9006 401 262 0904 401 262 0706 401 262 2304 401 224 9006	MT-GLAZE 10K JA 1/16W MT-GLAZE 27K DC 1/16W MT-GLAZE 39K DC 1/16W MT-GLAZE 1.0K DC 1/16W MT-GLAZE 10K JA 1/16W	COMP	636 055 4276 636 056 6705	EXCEPT VPC-X360 VPC-X360 ONLY
R1705 R1706 R1707 R1709 R1711 R1712	401 224 9006 401 262 0904 401 262 0706 401 262 2304 401 224 9006 401 224 9006	MT-GLAZE 10K JA 1/16W MT-GLAZE 27K DC 1/16W MT-GLAZE 39K DC 1/16W MT-GLAZE 1.0K DC 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W		636 055 4276 636 056 6705 (SEMICONDUCT	EXCEPT VPC-X360 VPC-X360 ONLY CORS)
R1705 R1706 R1707 R1709 R1711 R1712 R1713	401 224 9006 401 262 0904 401 262 0706 401 262 2304 401 224 9006 401 224 9006 401 224 9006	MT-GLAZE 10K JA 1/16W MT-GLAZE 27K DC 1/16W MT-GLAZE 39K DC 1/16W MT-GLAZE 1.0K DC 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W	Q1301	636 055 4276 636 056 6705	EXCEPT VPC-X360 VPC-X360 ONLY
R1705 R1706 R1707 R1709 R1711 R1712 R1713 R1714	401 224 9006 401 262 0904 401 262 0706 401 262 2304 401 224 9006 401 224 9006 401 262 1901	MT-GLAZE 10K JA 1/16W MT-GLAZE 27K DC 1/16W MT-GLAZE 39K DC 1/16W MT-GLAZE 1.0K DC 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 6.8K DC 1/16W		636 055 4276 636 056 6705 (SEMICONDUCT 405 115 7201	EXCEPT VPC-X360 VPC-X360 ONLY ORS) TR DTC144EE
R1705 R1706 R1707 R1709 R1711 R1712 R1713 R1714 R1715	401 224 9006 401 262 0904 401 262 0706 401 262 2304 401 224 9006 401 224 9006 401 224 9006 401 262 1901 401 275 2001	MT-GLAZE 10K JA 1/16W MT-GLAZE 27K DC 1/16W MT-GLAZE 39K DC 1/16W MT-GLAZE 1.0K DC 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 6.8K DC 1/16W MT-GLAZE 30K DC 1/16W	Q1301 Q1402 Q1501 Q1502	636 055 4276 636 056 6705 (SEMICONDUCT 405 115 7201 405 129 2001	EXCEPT VPC-X360 VPC-X360 ONLY TR DTC144EE TR UMH2N TR UMT1N TR UMZ1N
R1705 R1706 R1707 R1709 R1711 R1712 R1713 R1714 R1715 R1718	401 224 9006 401 262 0904 401 262 0706 401 262 2304 401 224 9006 401 224 9006 401 224 9006 401 262 1901 401 275 2001 401 228 4502	MT-GLAZE 10K JA 1/16W MT-GLAZE 27K DC 1/16W MT-GLAZE 39K DC 1/16W MT-GLAZE 1.0K DC 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 6.8K DC 1/16W MT-GLAZE 30K DC 1/16W MT-GLAZE 2.2 JA 1/16W	Q1301 Q1402 Q1501 Q1502 OR	636 055 4276 636 056 6705 (SEMICONDUCT 405 115 7201 405 129 2001 405 129 2100 405 129 2308 405 106 4806	EXCEPT VPC-X360 VPC-X360 ONLY TR DTC144EE TR UMH2N TR UMT1N TR UMZ1N TR XP4601
R1705 R1706 R1707 R1709 R1711 R1712 R1713 R1714 R1715 R1718 R1725	401 224 9006 401 262 0904 401 262 0706 401 262 2304 401 224 9006 401 224 9006 401 224 9006 401 262 1901 401 275 2001 401 228 4502 401 225 0507	MT-GLAZE 10K JA 1/16W MT-GLAZE 27K DC 1/16W MT-GLAZE 39K DC 1/16W MT-GLAZE 1.0K DC 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 6.8K DC 1/16W MT-GLAZE 30K DC 1/16W MT-GLAZE 2.2 JA 1/16W MT-GLAZE 33K JA 1/16W	Q1301 Q1402 Q1501 Q1502 OR Q1503	636 055 4276 636 056 6705 (SEMICONDUCT 405 115 7201 405 129 2001 405 129 2100 405 129 2308 405 106 4806 405 129 2308	EXCEPT VPC-X360 VPC-X360 ONLY TORS) TR DTC144EE TR UMH2N TR UMT1N TR UMZ1N TR XP4601 TR UMZ1N
R1705 R1706 R1707 R1709 R1711 R1712 R1713 R1714 R1715 R1718 R1725 R1726	401 224 9006 401 262 0904 401 262 0706 401 262 2304 401 224 9006 401 224 9006 401 224 9006 401 262 1901 401 275 2001 401 228 4502 401 225 0507 401 224 9303	MT-GLAZE 10K JA 1/16W MT-GLAZE 27K DC 1/16W MT-GLAZE 39K DC 1/16W MT-GLAZE 1.0K DC 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 6.8K DC 1/16W MT-GLAZE 30K DC 1/16W MT-GLAZE 2.2 JA 1/16W MT-GLAZE 33K JA 1/16W MT-GLAZE 1K JA 1/16W	Q1301 Q1402 Q1501 Q1502 OR Q1503 OR	636 055 4276 636 056 6705 (SEMICONDUCT 405 115 7201 405 129 2001 405 129 2100 405 129 2308 405 106 4806 405 129 2308 405 106 4806	EXCEPT VPC-X360 VPC-X360 ONLY TORS) TR DTC144EE TR UMH2N TR UMT1N TR UMZ1N TR XP4601 TR UMZ1N TR XP4601 TR XP4601
R1705 R1706 R1707 R1709 R1711 R1712 R1713 R1714 R1715 R1718 R1725 R1726 R1727	401 224 9006 401 262 0904 401 262 0706 401 262 2304 401 224 9006 401 224 9006 401 262 1901 401 275 2001 401 228 4502 401 225 0507 401 224 9303 401 224 9006	MT-GLAZE 10K JA 1/16W MT-GLAZE 27K DC 1/16W MT-GLAZE 39K DC 1/16W MT-GLAZE 1.0K DC 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 6.8K DC 1/16W MT-GLAZE 30K DC 1/16W MT-GLAZE 30K DC 1/16W MT-GLAZE 2.2 JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W	Q1301 Q1402 Q1501 Q1502 OR Q1503 OR Q1601	636 055 4276 636 056 6705 (SEMICONDUCT 405 115 7201 405 129 2001 405 129 2100 405 129 2308 405 106 4806 405 129 2308 405 106 4806 405 115 6907	EXCEPT VPC-X360 VPC-X360 ONLY TORS) TR DTC144EE TR UMH2N TR UMT1N TR UMZ1N TR UMZ1N TR VMZ1N TR VMZ601 TR UMZ1N TR XP4601 TR DTC114EE
R1705 R1706 R1707 R1709 R1711 R1712 R1713 R1714 R1715 R1718 R1725 R1726 R1727 R1732	401 224 9006 401 262 0904 401 262 0706 401 262 2304 401 224 9006 401 224 9006 401 224 9006 401 262 1901 401 275 2001 401 275 2001 401 228 4502 401 225 0507 401 224 9006 401 225 0200	MT-GLAZE 10K JA 1/16W MT-GLAZE 27K DC 1/16W MT-GLAZE 39K DC 1/16W MT-GLAZE 1.0K DC 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 30K DC 1/16W MT-GLAZE 2.2 JA 1/16W MT-GLAZE 2.2 JA 1/16W MT-GLAZE 33K JA 1/16W MT-GLAZE 1K JA 1/16W MT-GLAZE 33K JA 1/16W MT-GLAZE 3.3K JA 1/16W MT-GLAZE 3.3K JA 1/16W	Q1301 Q1402 Q1501 Q1502 OR Q1503 OR Q1601 Q1602	636 055 4276 636 056 6705 (SEMICONDUCT 405 115 7201 405 129 2001 405 129 2100 405 129 2308 405 106 4806 405 129 2308 405 106 4806 405 115 6907 405 102 6705	EXCEPT VPC-X360 VPC-X360 ONLY TORS) TR DTC144EE TR UMH2N TR UMT1N TR UMZ1N TR WZ1N TR WZ1N TR VP4601 TR UMZ1N TR XP4601 TR DTC114EE TR 2SA1745-7
R1705 R1706 R1707 R1709 R17711 R1712 R1713 R1714 R1715 R1718 R1725 R1726 R1727 R1732 R1743	401 224 9006 401 262 0904 401 262 0706 401 262 2304 401 224 9006 401 224 9006 401 224 9006 401 275 2001 401 275 2001 401 228 4502 401 225 0507 401 224 9006 401 224 9006 401 225 0200 401 257 4108	MT-GLAZE 10K JA 1/16W MT-GLAZE 27K DC 1/16W MT-GLAZE 39K DC 1/16W MT-GLAZE 1.0K DC 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 30K DC 1/16W MT-GLAZE 30K DC 1/16W MT-GLAZE 2.2 JA 1/16W MT-GLAZE 11K JA 1/16W MT-GLAZE 33K JA 1/16W MT-GLAZE 33K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 33K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W	Q1301 Q1402 Q1501 Q1502 OR Q1503 OR Q1601 Q1602 OR	636 055 4276 636 056 6705 (SEMICONDUCT 405 115 7201 405 129 2001 405 129 2100 405 129 2308 405 106 4806 405 129 2308 405 106 4806 405 115 6907 405 102 6705 405 102 8303	EXCEPT VPC-X360 VPC-X360 ONLY TORS) TR DTC144EE TR UMH2N TR UMT1N TR UMZ1N TR XP4601 TR UMZ1N TR XP4601 TR DTC114EE TR 2SA1745-7 TR 2SA1745-6
R1705 R1706 R1707 R1709 R1711 R1712 R1713 R1714 R1715 R1718 R1725 R1726 R1727 R1732	401 224 9006 401 262 0904 401 262 0706 401 262 2304 401 224 9006 401 224 9006 401 224 9006 401 262 1901 401 275 2001 401 275 2001 401 228 4502 401 225 0507 401 224 9006 401 225 0200	MT-GLAZE 10K JA 1/16W MT-GLAZE 27K DC 1/16W MT-GLAZE 39K DC 1/16W MT-GLAZE 1.0K DC 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 30K DC 1/16W MT-GLAZE 2.2 JA 1/16W MT-GLAZE 2.2 JA 1/16W MT-GLAZE 33K JA 1/16W MT-GLAZE 1K JA 1/16W MT-GLAZE 33K JA 1/16W MT-GLAZE 3.3K JA 1/16W MT-GLAZE 3.3K JA 1/16W	Q1301 Q1402 Q1501 Q1502 OR Q1503 OR Q1601 Q1602 OR Q9501	636 055 4276 636 056 6705 (SEMICONDUCT 405 115 7201 405 129 2001 405 129 2100 405 129 2308 405 106 4806 405 129 2308 405 106 4806 405 115 6907 405 102 8303 405 115 7201	EXCEPT VPC-X360 VPC-X360 ONLY TORS) TR DTC144EE TR UMH2N TR UMT1N TR UMZ1N TR XP4601 TR UMZ1N TR XP4601 TR DTC114EE TR 2SA1745-7 TR 2SA1745-6 TR DTC144EE
R1705 R1706 R1707 R1709 R1711 R1712 R1713 R1714 R1715 R1718 R1725 R1726 R1727 R1732 R1732 R1743 R1744 R1766 R1767	401 224 9006 401 262 0904 401 262 0706 401 262 2304 401 224 9006 401 224 9006 401 224 9006 401 225 0901 401 225 0507 401 225 0507 401 224 9006 401 225 0200 401 257 4108 401 257 4108 401 264 0001 401 224 9006 401 275 2001	MT-GLAZE 10K JA 1/16W MT-GLAZE 27K DC 1/16W MT-GLAZE 39K DC 1/16W MT-GLAZE 1.0K DC 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 6.8K DC 1/16W MT-GLAZE 30K DC 1/16W MT-GLAZE 30K DC 1/16W MT-GLAZE 33K JA 1/16W MT-GLAZE 11K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 3.3K JA 1/16W MT-GLAZE 3.3K JA 1/16W MT-GLAZE 100K DC 1/16W MT-GLAZE 3.3K JA 1/16W MT-GLAZE 3.3K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 3.3K JA 1/16W MT-GLAZE 3.3K JA 1/16W MT-GLAZE 3.3K JA 1/16W	Q1301 Q1402 Q1501 Q1502 OR Q1503 OR Q1601 Q1602 OR	636 055 4276 636 056 6705 (SEMICONDUCT 405 115 7201 405 129 2001 405 129 2100 405 129 2308 405 106 4806 405 129 2308 405 106 4806 405 115 6907 405 102 6705 405 102 8303 405 115 7201 405 061 6600	EXCEPT VPC-X360 VPC-X360 ONLY TORS) TR DTC144EE TR UMH2N TR UMT1N TR UMZ1N TR XP4601 TR UMZ1N TR XP4601 TR DTC114EE TR 2SA1745-6 TR DTC144EE TR 2SB1302-S
R1705 R1706 R1707 R1709 R1711 R1712 R1713 R1714 R1715 R1718 R1725 R1726 R1727 R1732 R1743 R1744 R1766 R1767 R1768	401 224 9006 401 262 0904 401 262 0706 401 262 2304 401 224 9006 401 224 9006 401 224 9006 401 225 0901 401 275 2001 401 225 0507 401 224 9006 401 225 0200 401 257 4108 401 257 4108 401 224 9006 401 275 2001 401 225 0200 401 257 4108 401 259 0200 401 275 2001 401 264 0001 401 275 2001 401 262 0607	MT-GLAZE 10K JA 1/16W MT-GLAZE 27K DC 1/16W MT-GLAZE 39K DC 1/16W MT-GLAZE 1.0K DC 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 6.8K DC 1/16W MT-GLAZE 30K DC 1/16W MT-GLAZE 33K JA 1/16W MT-GLAZE 11K JA 1/16W MT-GLAZE 11K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 36K JA 1/16W MT-GLAZE 30K DC 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 30K DC 1/16W MT-GLAZE 30K DC 1/16W MT-GLAZE 30K DC 1/16W MT-GLAZE 30K DC 1/16W	Q1301 Q1402 Q1501 Q1502 OR Q1503 OR Q1601 Q1602 OR Q9501 Q9502	636 055 4276 636 056 6705 (SEMICONDUCT 405 115 7201 405 129 2001 405 129 2100 405 129 2308 405 106 4806 405 129 2308 405 106 4806 405 115 6907 405 102 8303 405 115 7201	EXCEPT VPC-X360 VPC-X360 ONLY TORS) TR DTC144EE TR UMH2N TR UMT1N TR UMZ1N TR XP4601 TR UMZ1N TR XP4601 TR DTC114EE TR 2SA1745-6 TR DTC144EE TR 2SB1302-S CIRCUITS)
R1705 R1706 R1707 R1709 R1711 R1712 R1713 R1714 R1715 R1718 R1725 R1726 R1727 R1732 R1743 R1744 R1766 R1767 R1768 R1775	401 224 9006 401 262 0904 401 262 0706 401 262 2304 401 224 9006 401 224 9006 401 224 9006 401 225 0901 401 275 2001 401 225 0507 401 224 9006 401 225 0507 401 225 0200 401 257 4108 401 264 0001 401 275 2001 401 224 9006 401 275 2001 401 262 0607 401 263 1702	MT-GLAZE 10K JA 1/16W MT-GLAZE 27K DC 1/16W MT-GLAZE 39K DC 1/16W MT-GLAZE 1.0K DC 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 6.8K DC 1/16W MT-GLAZE 30K DC 1/16W MT-GLAZE 33K JA 1/16W MT-GLAZE 33K JA 1/16W MT-GLAZE 11K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 33K JA 1/16W MT-GLAZE 30K DC 1/16W MT-GLAZE 30K JA 1/16W MT-GLAZE 30K JC 1/16W	Q1301 Q1402 Q1501 Q1502 OR Q1503 OR Q1601 Q1602 OR Q9501 Q9502	636 055 4276 636 056 6705 (SEMICONDUCT 405 115 7201 405 129 2001 405 129 2100 405 129 2308 405 106 4806 405 129 2308 405 106 4806 405 115 6907 405 102 6705 405 102 8303 405 115 7201 405 061 6600 (INTEGRATED C	EXCEPT VPC-X360 VPC-X360 ONLY FORS) TR DTC144EE TR UMH2N TR UMT1N TR UMZ1N TR XP4601 TR UMZ1N TR XP4601 TR DTC114EE TR 2SA1745-6 TR DTC144EE TR 2SB1302-S EIRCUITS) IC LC98500AT-RF8 (N.S.P.)
R1705 R1706 R1707 R1709 R1711 R1712 R1713 R1714 R1715 R1718 R1725 R1726 R1727 R1732 R1744 R1766 R1767 R1767 R1768 R1775 R1775 R1775	401 224 9006 401 262 0904 401 262 0706 401 262 2304 401 224 9006 401 224 9006 401 224 9006 401 275 2001 401 228 4502 401 225 0507 401 224 9006 401 225 0200 401 257 2001 401 262 0607 401 263 1702 401 225 1207	MT-GLAZE 10K JA 1/16W MT-GLAZE 27K DC 1/16W MT-GLAZE 39K DC 1/16W MT-GLAZE 1.0K DC 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 2.2 JA 1/16W MT-GLAZE 30K DC 1/16W MT-GLAZE 33K JA 1/16W MT-GLAZE 1K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 33K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 36K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 22K DC 1/16W MT-GLAZE 22K DC 1/16W MT-GLAZE 1.2K DC 1/16W	Q1301 Q1402 Q1501 Q1502 OR Q1503 OR Q1601 Q1602 OR Q9501 Q9502 IC101 IC106	636 055 4276 636 056 6705 (SEMICONDUCT 405 115 7201 405 129 2001 405 129 2100 405 129 2308 405 106 4806 405 129 2308 405 106 4806 405 115 6907 405 102 6705 405 102 8303 405 115 7201 405 061 6600	EXCEPT VPC-X360 VPC-X360 ONLY TORS) TR DTC144EE TR UMH2N TR UMT1N TR UMZ1N TR XP4601 TR UMZ1N TR XP4601 TR DTC114EE TR 2SA1745-7 TR 2SA1745-6 TR DTC144EE TR 2SB1302-S EIRCUITS) IC LC98500AT-RF8 (N.S.P.) IC M2V64S40BTP-10
R1705 R1706 R1707 R1709 R17711 R1712 R1713 R1714 R1715 R1718 R1725 R1726 R1727 R1732 R1744 R1766 R1767 R1766 R1767 R1768 R1775 R1775 R1775 R1775 R1775	401 224 9006 401 262 0904 401 262 0706 401 262 2304 401 224 9006 401 224 9006 401 224 9006 401 275 2001 401 228 4502 401 225 0507 401 224 9006 401 225 0200 401 257 4108 401 262 0607 401 263 1702 401 225 1207 401 225 0408	MT-GLAZE 10K JA 1/16W MT-GLAZE 39K DC 1/16W MT-GLAZE 1.0K DC 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 30K DC 1/16W MT-GLAZE 30K DC 1/16W MT-GLAZE 2.2 JA 1/16W MT-GLAZE 11K JA 1/16W MT-GLAZE 11K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 3.3K JA 1/16W MT-GLAZE 100K DC 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 30K DC 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 12K DC 1/16W MT-GLAZE 1.2K DC 1/16W MT-GLAZE 330K JA 1/16W	Q1301 Q1402 Q1501 Q1502 OR Q1503 OR Q1601 Q1602 OR Q9501 Q9502 IC101 IC106 IC111	636 055 4276 636 056 6705 (SEMICONDUCT 405 115 7201 405 129 2001 405 129 2100 405 129 2308 405 106 4806 405 129 2308 405 106 4806 405 115 6907 405 102 6705 405 102 8303 405 115 7201 405 061 6600 (INTEGRATED C	EXCEPT VPC-X360 VPC-X360 ONLY FORS) TR DTC144EE TR UMH2N TR UMT1N TR WMZ1N TR XP4601 TR UMZ1N TR XP4601 TR DTC114EE TR 2SA1745-7 TR 2SA1745-6 TR DTC144EE TR 2SB1302-S EIRCUITS) IC LC98500AT-RF8 (N.S.P.) IC M2V64S40BTP-10 IC IMISG589BTB
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R1705 R1706 R1707 R1709 R17711 R1712 R1713 R1714 R1715 R1718 R1725 R1726 R1727 R1732 R1744 R1766 R1767 R1768 R1767 R2010 R2011 R2012 R2013 R2014 R2015 R2016 R2017 R2018 R2019 R2020 R2021 R2022 R2023 R2024 R2022 R2023 R2024 R2025 R9010 R9011 R9012	401 224 9006 401 262 0706 401 262 2304 401 224 9006 401 224 9006 401 224 9006 401 224 9006 401 225 0507 401 225 0507 401 224 9303 401 225 0507 401 224 9303 401 225 0507 401 225 0503 401 225 0503 401 224 9006 401 224 9303 401 224 9303 401 224 9006 401 224 9006 401 224 9006 401 224 9006 401 226 1503 401 226 1503 401 226 1503 401 226 1503 401 226 1503 401 226 1503 401 226 1503 401 226 1503 401 226 1503 401 226 1503 401 226 1503 401 226 1503 401 226 1503 401 226 1503 401 226 1503 401 267 3207 401 262 1604 401 224 9006	MT-GLAZE 10K JA 1/16W MT-GLAZE 27K DC 1/16W MT-GLAZE 1.0K DC 1/16W MT-GLAZE 1.0K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 30K DC 1/16W MT-GLAZE 30K DC 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 11K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 36K JA 1/16W MT-GLAZE 36K JA 1/16W MT-GLAZE 30K DC 1/16W MT-GLAZE 30K DC 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 30K DC 1/16W MT-GLAZE 1.2K DC 1/16W MT-GLAZE 330K JA 1/16W MT-GLAZE 330K JA 1/16W MT-GLAZE 330K JA 1/16W MT-GLAZE 1.2K DC 1/16W MT-GLAZE 330K JA 1/16W MT-GLAZE 1.8K JA 1/16W MT-GLAZE 1.8K JA 1/16W MT-GLAZE 1.8K JA 1/16W MT-GLAZE 10X JA 1/16W MT-GLAZE 2.2K DC 1/16W MT-GLAZE 2.2K DC 1/16W MT-GLAZE 330 DC 1/16W MT-GLAZE 330 DC 1/16W MT-GLAZE 2.2K DC 1/16W MT-GLAZE 2.2K DC 1/16W MT-GLAZE 10X JA 1/16W	Q1301 Q1402 Q1501 Q1502 OR Q1503 OR Q1601 Q1602 OR Q9501 Q9502 IC101 IC106 IC111 IC121 IC121 IC131 IC132 IC144 IC143 IC144 IC145 IC152 IC153 IC161 D1301 D1302 D1501	636 055 4276 636 056 6705 (SEMICONDUCT 405 115 7201 405 129 2001 405 129 2308 405 106 4806 405 129 2308 405 106 4806 405 115 6907 405 102 8303 405 115 7201 405 061 6600 (INTEGRATED CONTEGRATED CONT	EXCEPT VPC-X360 VPC-X360 ONLY FORS) TR DTC144EE TR UMH2N TR UMT1N TR UMZ1N TR XP4601 TR UMZ1N TR XP4601 TR DTC114EE TR 2SA1745-7 TR 2SA1745-6 TR DTC144EE TR 2SA1745-6 TR DTC144EE TR 2SB1302-S EIRCUITS) IC LC98500AT-RF8 (N.S.P.) IC M2V64S40BTP-10 IC IMISG589BTB IC 25101662A,EXCEPT VPC-X360 IC 25103662AN,VPC-X360 ONLY IC ADM3202ARU IC S-8324A50MC-EPE IC SN74LV245AP IC TC7S32F IC PST9128NR IC TK11331BM IC TK15405M IC TC7SH08FU IC TC7SH08FU IC TK11331BM DIODE 1SS355 DIODE RB551V-30 DIODE MA728
R1705 R1706 R1707 R1709 R1711 R1711 R1712 R1713 R1714 R1715 R1718 R1725 R1726 R1727 R1732 R1744 R1766 R1767 R1768 R1767 R2010 R2011 R2012 R2013 R2014 R2015 R2016 R2017 R2018 R2017 R2018 R2019 R2020 R2021 R2022 R2023 R2024 R2025 R9010 R9011 R9012 R9013	401 224 9006 401 262 0706 401 262 0706 401 262 2304 401 224 9006 401 224 9006 401 224 9006 401 225 0507 401 225 0503 401 225 0503 401 224 9006 401 224 9303 401 224 9303 401 224 9006 401 224 9006 401 224 9006 401 224 9006 401 224 9006 401 224 9006 401 226 1503 401 226 1503 401 224 9006 401 226 1503 401 226 1503 401 226 1503 401 226 1503 401 226 1503 401 226 1503 401 226 1503 401 226 1503 401 226 1503 401 226 1503 401 226 1503 401 226 1503 401 226 1503 401 226 1503 401 226 1503 401 226 1503	MT-GLAZE 10K JA 1/16W MT-GLAZE 27K DC 1/16W MT-GLAZE 1.0K DC 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 30K DC 1/16W MT-GLAZE 30K DC 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 36K JA 1/16W MT-GLAZE 30K DC 1/16W MT-GLAZE 30K JA 1/16W MT-GLAZE 30K DC 1/16W MT-GLAZE 30K JA 1/16W MT-GLAZE 30K JA 1/16W MT-GLAZE 30K JA 1/16W MT-GLAZE 30K JA 1/16W MT-GLAZE 330K JA 1/16W MT-GLAZE 330K JA 1/16W MT-GLAZE 1.2K DC 1/16W MT-GLAZE 330K JA 1/16W MT-GLAZE 1.8K JA 1/16W MT-GLAZE 1.8K JA 1/16W MT-GLAZE 1.8K JA 1/16W MT-GLAZE 1K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 22K DC 1/16W MT-GLAZE 22K DC 1/16W MT-GLAZE 330 DC 1/16W MT-GLAZE 30D C 1/16W MT-GLAZE 30D C 1/16W MT-GLAZE 22K DC 1/16W MT-GLAZE 30D C 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 30D C 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 22K DC 1/16W MT-GLAZE 30D C 1/16W MT-GLAZE 10K JA 1/16W	Q1301 Q1402 Q1501 Q1502 OR Q1503 OR Q1601 Q1602 OR Q9501 Q9502 IC101 IC106 IC111 IC121 IC121 IC121 IC132 IC144 IC143 IC144 IC145 IC153 IC161 D1301 D1301 D1501 D1601 D1601 D9501	636 055 4276 636 056 6705 (SEMICONDUCT 405 115 7201 405 129 2001 405 129 2308 405 106 4806 405 129 2308 405 106 4806 405 129 2308 405 106 4806 405 115 6907 405 102 6705 405 102 8303 405 115 7201 405 061 6600 (INTEGRATED C 409 441 5306 409 459 3202 409 463 8101 409 468 5402 409 463 8402 409 412 4109 410 298 3605 409 435 6906 409 152 5602 409 407 0703 409 407 0505 409 427 4101 409 368 5809 409 407 0505 (DIODES) 407 149 0807 407 210 5403 407 109 4609 407 130 7408 407 130 4401 407 092 9506 (CRYSTAL DEVI	EXCEPT VPC-X360 VPC-X360 ONLY FORS) TR DTC144EE TR UMH2N TR UMT1N TR UMZ1N TR XP4601 TR UMZ1N TR XP4601 TR DTC114EE TR 2SA1745-6 TR DTC114EE TR 2SA1745-6 TR DTC144EE TR 2SB1302-S CIRCUITS) IC LC98500AT-RF8 (N.S.P.) IC M2V64S40BTP-10 IC IMISG589BTB IC 25101662A, EXCEPT VPC-X360 IC 25103662AN, VPC-X360 ONLY IC ADM3202ARU IC S-8324A50MC-EPE IC SN74LV245AP IC TC7S32F IC PST9128NR IC TK11331BM IC TK15405M IC TK15405M IC TK15405M IC TK11331BM DIODE 1SS355 DIODE RB551V-30 DIODE MA728 DIODE MA728 DIODE MA728 DIODE DAN202U DIODE SB07-03C CES)
R1705 R1706 R1707 R1709 R17711 R1712 R1713 R1714 R1715 R1718 R1725 R1726 R1727 R1732 R1744 R1766 R1767 R1768 R1767 R2010 R2011 R2012 R2013 R2014 R2015 R2016 R2017 R2018 R2019 R2020 R2021 R2022 R2023 R2024 R2022 R2023 R2024 R2025 R9010 R9011 R9012	401 224 9006 401 262 0706 401 262 2304 401 224 9006 401 224 9006 401 224 9006 401 224 9006 401 225 0507 401 225 0507 401 224 9303 401 225 0507 401 224 9303 401 225 0507 401 225 0503 401 225 0503 401 224 9006 401 224 9303 401 224 9303 401 224 9006 401 224 9006 401 224 9006 401 224 9006 401 226 1503 401 226 1503 401 226 1503 401 226 1503 401 226 1503 401 226 1503 401 226 1503 401 226 1503 401 226 1503 401 226 1503 401 226 1503 401 226 1503 401 226 1503 401 226 1503 401 226 1503 401 267 3207 401 262 1604 401 224 9006	MT-GLAZE 10K JA 1/16W MT-GLAZE 27K DC 1/16W MT-GLAZE 1.0K DC 1/16W MT-GLAZE 1.0K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 30K DC 1/16W MT-GLAZE 30K DC 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 11K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 36K JA 1/16W MT-GLAZE 36K JA 1/16W MT-GLAZE 30K DC 1/16W MT-GLAZE 30K DC 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 30K DC 1/16W MT-GLAZE 1.2K DC 1/16W MT-GLAZE 330K JA 1/16W MT-GLAZE 330K JA 1/16W MT-GLAZE 330K JA 1/16W MT-GLAZE 1.2K DC 1/16W MT-GLAZE 330K JA 1/16W MT-GLAZE 1.8K JA 1/16W MT-GLAZE 1.8K JA 1/16W MT-GLAZE 1.8K JA 1/16W MT-GLAZE 10X JA 1/16W MT-GLAZE 2.2K DC 1/16W MT-GLAZE 2.2K DC 1/16W MT-GLAZE 330 DC 1/16W MT-GLAZE 330 DC 1/16W MT-GLAZE 2.2K DC 1/16W MT-GLAZE 2.2K DC 1/16W MT-GLAZE 10X JA 1/16W	Q1301 Q1402 Q1501 Q1502 OR Q1503 OR Q1601 Q1602 OR Q9501 Q9502 IC101 IC106 IC111 IC121 IC121 IC131 IC143 IC144 IC145 IC145 IC152 IC153 IC161 D1301 D1302 D1501 D1601 D1601	636 055 4276 636 056 6705 (SEMICONDUCT 405 115 7201 405 129 2001 405 129 2308 405 106 4806 405 129 2308 405 106 4806 405 115 6907 405 102 8303 405 105 6705 405 102 8303 405 115 7201 405 061 6600 (INTEGRATED C 409 441 5306 409 459 3202 409 463 8101 409 468 5402 409 412 4109 410 298 3605 409 435 6906 409 152 5602 409 407 0703 409 407 0505 (DIODES) 407 149 0807 407 210 5403 407 109 4609 407 130 4401 407 092 9506	EXCEPT VPC-X360 VPC-X360 ONLY FORS) TR DTC144EE TR UMH2N TR UMT1N TR UMZ1N TR YP4601 TR UMZ1N TR XP4601 TR DTC114EE TR 2SA1745-6 TR DTC114EE TR 2SA1745-6 TR DTC144EE TR 2SB1302-S FIRCUITS) IC LC98500AT-RF8 (N.S.P.) IC M2V64S40BTP-10 IC IMISG589BTB IC 25101662A, EXCEPT VPC-X360 IC 25103662AN, VPC-X360 ONLY IC ADM3202ARU IC S-8324A50MC-EPE IC SN74LV245AP IC TC7S32F IC PST9128NR IC TK11331BM IC TK11331BM IC TK15405M IC TC7SH08FU IC TK11331BM DIODE 1SS355 DIODE RB551V-30 DIODE MA728 DIODE MA728 DIODE MA728 DIODE MA728 DIODE MA728 DIODE DAN202U DIODE SB07-03C

LOCATION	PARTS NO.	DESCRIPTION OSC, CRYSTAL 17.734476MHZ, EXCEPT VPC-X360 INDUCTOR, 600 OHM INDUCTOR, 120 OHM INDUCTOR, 120 OHM INDUCTOR, 68 OHM INDUCTOR, 33U J INDUCTOR, 600 OHM INDUCTOR, 60	LOCATION	PARTS NO.	DESCRIPTION
X1101	645 024 0461	OSC,CRYSTAL 17.734476MHZ,	R1014	401 225 7902	MT-GLAZE 220 JA 1/16W
	(11111111111111111111111111111111111111	EXCEPT VPC-X360	R1015	401 225 0309	MT-GLAZE 33 JA 1/16W
L1101	(INDUCTORS) 645 016 0363	INDLICTOR 600 OHM	R1016 R1017	401 225 0309 401 225 0309	MT-GLAZE 33 JA 1/16W MT-GLAZE 33 JA 1/16W
L1101	645 038 2161	INDUCTOR,000 OHM	R1017	401 225 0309	MT-GLAZE 33 JA 1/16W
L1105	645 020 1899	INDUCTOR,68 OHM	R1019	401 225 0309	MT-GLAZE 33 JA 1/16W
L1301	645 010 0987	INDUCTOR,100U K	R1020	401 225 7902	MT-GLAZE 220 JA 1/16W
L1501 L1502	645 004 1990 645 004 2409	INDUCTOR,47U K	R1021 R1022	401 225 7902 401 225 7902	MT-GLAZE 220 JA 1/16W MT-GLAZE 220 JA 1/16W
L1601	645 016 0349	INDUCTOR,600 OHM	R1023	401 225 7902	MT-GLAZE 220 JA 1/16W
L1602	645 016 0349	INDUCTOR,600 OHM	R1024	401 225 7902	MT-GLAZE 220 JA 1/16W
04000	(CAPACITORS)	OFDAMIO 04117 40V	R1025	401 225 7902	MT-GLAZE 220 JA 1/16W
C1030 C1031	403 312 6805 403 312 6805	CERAMIC 0.10 Z 16V	R1026 R1030	401 225 7902 401 225 0705	MT-GLAZE 220 JA 1/16W MT-GLAZE 56K JA 1/16W
C1032	403 312 6805	CERAMIC 0.1U Z 16V	R1036	401 226 1503	MT-GLAZE 0.000 ZA 1/16W
C1033	403 312 6805	CERAMIC 0.1U Z 16V	R1037	401 226 1503	MT-GLAZE 0.000 ZA 1/16W
C1034 C1035	403 312 6805 403 312 6805	CERAMIC 0.1U Z 16V	R1038 R1039	401 226 1503 401 226 1503	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 0.000 ZA 1/16W
C1033	403 312 6805	CERAMIC 0.10 Z 16V	R1052	401 262 1604	MT-GLAZE 0.000 ZA 1/10W MT-GLAZE 2.2K DC 1/16W
C1037	403 312 6805	CERAMIC 0.1U Z 16V	R1053	401 262 2304	MT-GLAZE 1.0K DC 1/16W
C1038	403 312 6805	CERAMIC 0.1U Z 16V	R1054	401 262 1604	MT-GLAZE 2.2K DC 1/16W
C1039 C1040	403 312 6805 403 312 6805	CERAMIC 0.10 Z 16V	R1055 R1056	401 262 2304 401 262 2809	MT-GLAZE 1.0K DC 1/16W MT-GLAZE 200 DC 1/16W
C1041	403 312 6805	CERAMIC 0.1U Z 16V	R1057	401 262 2205	MT-GLAZE 820 DC 1/16W
C1042	403 312 6805	CERAMIC 0.1U Z 16V	R1058	401 262 2809	MT-GLAZE 200 DC 1/16W
C1046	403 312 6805	CERAMIC 101 K 6 2V	R1062 R1063	401 226 1503 401 105 7909	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 0.000 ZA 1/16W
C1051 C1052	403 334 3806 403 312 6805	CERAMIC 100 K 6.3V	R1069	401 235 2102	MT-GLAZE
C1053	403 312 6805	CERAMIC 0.1U Z 16V	R1071	401 262 2106	MT-GLAZE 680 DC 1/16W
C1054	403 312 6805	CERAMIC 0.1U Z 16V	R1075	401 224 9006	MT-GLAZE 10K JA 1/16W
C1055 C1056	403 312 6805 403 312 6805	CERAMIC 0.1U Z 16V	R1090 R1091	401 224 9006 401 224 9006	MT-GLAZE 10K JA 1/16W MT-GLAZE 10K JA 1/16W
C1050	403 283 6309	CERAMIC 1U Z 10V	R1092	401 224 9006	MT-GLAZE 10K JA 1/16W
C1061	403 312 6003	CERAMIC 39P J 50V	R1099	401 224 9006	MT-GLAZE 10K JA 1/16W
C1070	403 113 3805	CERAMIC 1000P K 50V	R1102	401 224 8801	MT-GLAZE 100 JA 1/16W
C1071 C1072	403 312 6805 403 312 6805	CERAMIC 0.10 Z 16V	R1104 R1106	401 037 5004 401 226 1503	MT-GLAZE 0.000 ZA 1/10W MT-GLAZE 0.000 ZA 1/16W,EXCEPT VPC-X360
C1090	403 311 4505	CERAMIC 1000P K 50V	R1212	401 225 8107	MT-GLAZE 10 JA 1/16W
C1091	403 311 4505	CERAMIC 1000P K 50V	R1213	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
C1092 C1101	403 311 4505 403 155 1807	CERAMIC 1000P K 50V	R1322 R1323	401 226 1503 401 226 1503	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 0.000 ZA 1/16W
C1101	403 309 8409	CERAMIC 10P D 50V	R1324	401 226 1503	MT-GLAZE 0.000 ZA 1/16W
C1103	403 343 8700	CERAMIC 1U M 12V	R1325	401 226 1503	MT-GLAZE 0.000 ZA 1/16W
C1104	403 155 1807	CERAMIC 0.01U K 25V	R1326	401 224 9006 401 226 1503	MT-GLAZE 10K JA 1/16W MT-GLAZE 0.000 ZA 1/16W
C1105 C1106	403 155 1807 403 285 6802	TA-SOLID 10U M 6.3V	R1327 R1328	401 226 1503	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 0.000 ZA 1/16W
C1109	403 309 8102	TA-SOLID 10U M 6.3V CERAMIC 5P C 50V,VPC-X360 ONLY CERAMIC 6P D 50V EVCEPT VPC-X360	R1329	401 225 1405	MT-GLAZE 47K JA 1/16W
C1109	403 309 8201	CERAMIC 6P D 50V,EXCEPT VPC-X360	R1400	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
C1111 C1111	403 309 8102 403 309 8201	CERAMIC 5P C 50V,VPC-X360 ONLY CERAMIC 6P D 50V,EXCEPT VPC-X360	R1401 R1404	401 224 9006 401 225 1207	MT-GLAZE 10K JA 1/16W MT-GLAZE 4.7K JA 1/16W
C1211	403 323 6207	CERAMIC 1U K 10V	R1406	401 258 6606	MT-GLAZE 10K DC 1/16W
C1310	403 312 6805	CERAMIC 0.1U Z 16V	R1407	401 224 9006	MT-GLAZE 10K JA 1/16W
C1311 C1312	403 164 0204 403 164 0204	CERAMIC 0.1U Z 25V CERAMIC 0.1U Z 25V	R1408 R1409	401 224 9006 401 224 9600	MT-GLAZE 10K JA 1/16W MT-GLAZE 2.7K JA 1/16W
C1312	403 164 0204	CERAMIC 0.10 Z 25V	R1411	401 224 9000	MT-GLAZE 2.7K JA 1/16W MT-GLAZE 10K JA 1/16W
C1314	403 164 0204	CERAMIC 0.1U Z 25V	R1419	401 224 9006	MT-GLAZE 10K JA 1/16W
C1320	403 322 3504	CERAMIC 22U Z 10V	R1420	401 224 9006	MT-GLAZE 10K JA 1/16W
C1321 C1401	403 323 6009 403 312 6805	CERAMIC 10U M 16V CERAMIC 0.1U Z 16V	R1507 R1508	401 263 9609 401 263 9609	MT-GLAZE 91 DD 1/16W MT-GLAZE 91 DD 1/16W
C1402	403 314 8104	TA-SOLID 33U M 6.3V	R1509	401 262 2908	MT-GLAZE 220 DC 1/16W
C1403	403 312 6805	CERAMIC 0.1U Z 16V	R1510	401 226 2401	MT-GLAZE 560 JA 1/16W
C1450 C1501	403 207 0307 403 334 3806	CERAMIC 1U Z 16V CERAMIC 10U K 6.3V	R1512 R1513	401 225 3805 401 262 2007	MT-GLAZE 1.5K JA 1/16W MT-GLAZE 390 DC 1/16W,EXCEPT VPC-X360
C1508	403 334 3007	CERAMIC 33P J 50V,EXCEPT VPC-X360	R1513	401 262 2601	MT-GLAZE 330 DC 1/10W,EXCET T VT G-X300 MT-GLAZE 120 DC 1/16W,VPC-X360 ONLY
C1508	403 312 6508	CERAMIC 56P J 50V,VPC-X360 ONLY	R1514	401 262 2304	MT-GLAZE 1.0K DC 1/16W
C1510	403 312 6805	CERAMIC 0.1U Z 16V	R1515	401 262 2304	MT-GLAZE 1.0K DC 1/16W MT-GLAZE 2K DC 1/16W
C1511 C1512	403 207 0307 403 345 3802	CERAMIC 1U Z 16V TA-SOLID 22U M 4V	R1516 R1519	401 275 1905 401 225 2006	MT-GLAZE 2K DC 1/16W MT-GLAZE 680 JA 1/16W
C1513	403 345 4205	TA-SOLID 47U M 6.3V	R1522	401 225 3805	MT-GLAZE 1.5K JA 1/16W
C1517	403 312 6805	CERAMIC 0.1U Z 16V	R1523	401 105 5806	MT-GLAZE 56 JA 1/16W
C1519 C1531	403 334 3806 403 312 6805	CERAMIC 10U K 6.3V CERAMIC 0.1U Z 16V	R1526 R1527	401 262 2502 401 226 1503	MT-GLAZE 68 DD 1/16W MT-GLAZE 0.000 ZA 1/16W
C1601	403 345 4304	TA-SOLID 22U M 10V	R1527	401 224 9303	MT-GLAZE 0.000 ZA 1/16W
C1602	403 345 4205	TA-SOLID 47U M 6.3V	R1530	401 226 2401	MT-GLAZE 560 JA 1/16W
C1603 C1611	403 345 4304	TA-SOLID 22U M 10V	R1531	401 226 2401	MT-GLAZE 560 JA 1/16W
C1611	403 343 8700 403 334 3806	CERAMIC 1U M 12V CERAMIC 10U K 6.3V	R1532 R1604	401 226 1503 401 225 1207	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 4.7K JA 1/16W
C1613	403 343 8700	CERAMIC 1U M 12V	R1605	401 225 1207	MT-GLAZE 4.7K JA 1/16W
D4040	(RESISTORS)	MT CLAZE 0.000 ZA 4/46/A/	R1607	401 224 9303	MT-GLAZE 1K JA 1/16W
R1010 R1011	401 226 1503 401 225 7902	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 220 JA 1/16W	R9501 R9502	401 225 1801 401 226 2401	MT-GLAZE 47 JA 1/16W MT-GLAZE 560 JA 1/16W
R1013	401 225 7902	MT-GLAZE 220 JA 1/16W	R9503	401 224 9303	MT-GLAZE 1K JA 1/16W

LOCATION	PARTS NO.	DESCRIPTION	LOCATION	PARTS NO.	DESCRIPTION
	(SWITCH)	22001	D5407	407 151 4701	DIODE 1SS301-(TE85L)
S1001	645 023 0844	SWITCH,PUSH 1P-1TX1,	OR	407 130 4401	DIODE DAN202U
	(CONNECTORS)		OR	407 134 7408	DIODE MA141WK
CN101	645 036 7489	SOCKET,PWB-PWB 40(N.S.P)	OR	407 106 1601	DEODE DCG015
CN102	645 030 6655	SOCKET,PWB-PWB 50(N.S.P)	D5410	407 151 4701	DIODE 1SS301-(TE85L)
CN103	645 035 5387	PLUG,PWB-PWB 30P (N.S.P)	OR	407 130 4401	DIODE DAN202U
CN106	645 035 5400	PLUG,PWB-PWB 30P (N.S.P)	OR	407 134 7408	DIODE MA141WK
CN141	645 024 0706	SOCKET,CARD 22P (N.S.P)	OR	407 106 1601	DEODE DCG015
CN951	645 006 4647 (MISCELLANEO)	PLUG,2P (N.S.P)	VR501	(VARIABLE RES 645 028 2249	VR,SEMI,3.3K S
Y1001	411 174 1708	SCR S-TPG PAN PCS 1.7X3.5 (SMART-MEDIA)	VR502	645 028 2201	VR,SEMI,2.2K S
Y1101	636 056 0826	SHIELD CASE-CA2,SIDE-B	VR503	645 028 2201	VR,SEMI,2.2K S
Y1102	636 056 0963	SPACER CA2,SIDE-B SR662	VR504	645 019 5143	VR,SEMI,1K S
			VR505	645 019 5143	VR,SEMI,1K S
COMP	L PWB,PW-1	1	VR506	645 019 5143	VR,SEMI,1K S
	636 055 4290		L5002	(INDUCTORS) 645 037 1530	INDUCTOR,47U K
	(CEMICONDUCT	(ODC)	L5002	645 037 1530	INDUCTOR,470 K
Q5001	(SEMICONDUCT	TR 2SC4617 R	L5004	645 037 1530	INDUCTOR,47U K
Q5001 Q5002	405 115 5207 405 148 3904	TR CPH3209	L5005	645 037 0601	INDUCTOR,10U M
Q5002 Q5003	405 092 1100	TR 2SA1577-P	L5006	645 021 5315	INDUCTOR,110 OHM
OR	405 092 1209	TR 2SA1577-Q	L5007	645 030 5887	INDUCTOR,1000 OHM
OR	405 092 1407	TR 2SA1577-R	L5008	645 037 1523	INDUCTOR,10U K
Q5004	405 092 1100	TR 2SA1577-P	L5010	645 038 6701	INDUCTOR,4.7U M
OR	405 092 1209	TR 2SA1577-Q	L5011 L5012	645 037 1523 645 037 1523	INDUCTOR,10U K INDUCTOR,10U K
OR	405 092 1407	TR 2SA1577-R	L5012 L5013	645 037 1523	INDUCTOR, 100 K
Q5005	405 092 1100	TR 2SA1577-P	L5014	645 037 1523	INDUCTOR,100 K
OR OR	405 092 1209 405 092 1407	TR 2SA1577-Q TR 2SA1577-R	L5015	645 037 1530	INDUCTOR,47U K
Q5007	405 148 3904	TR CPH3209	L5016	645 037 0601	INDUCTOR, 10U M
Q5007 Q5008	405 148 3904	TR CPH3209	L5017	645 036 7496	INDUCTOR,4.7U M
Q5009	405 148 7100	TR CPH6401	L5018	645 037 1530	INDUCTOR,47U K
Q5010	405 115 5207	TR 2SC4617 R	L5401	645 037 0601	INDUCTOR,10U M
Q5012	405 115 6907	TR DTC114EE	T5001	(TRANSFORME 645 037 5040	TRANS,POWER,PULSE
Q5013	405 129 2902	TR UMH11N	T5001	645 023 1728	TRANS,POWER,PULSE
Q5014	405 115 6907	TR DTC114EE	T5401	645 032 8831	TRANS,STEP UP
Q5015 Q5016	405 152 1408 405 129 2308	TR 2SK2742 TR UMZ1N	T5402	645 031 6951	TRANS,STEP UP
Q5017	405 092 1100	TR 2SA1577-P		(CAPACITORS)	·
OR	405 092 1209	TR 2SA1577-Q	C5001	403 325 7608	CERAMIC 1U K 16V
OR	405 092 1407	TR 2SA1577-R	C5002	403 325 7608	CERAMIC 1U K 16V
Q5019	405 148 6905	TR CPH3303	C5003 C5004	403 323 6009 403 333 3708	CERAMIC 10U M 16V CERAMIC 10U M 10V
Q5020	405 148 6905	TR CPH3303	C5004	403 333 3708	CERAMIC 10U M 10V
Q5021	405 129 2308	TR UMZ1N	C5006	403 311 4505	CERAMIC 1000P K 50V
Q5022 Q5024	405 115 6907 405 129 2308	TR DTC114EE TR UMZ1N	C5007	403 314 7404	CERAMIC 3300P K 50V
Q5024 Q5025	405 129 2902	TR UMH11N	C5008	403 340 3906	CERAMIC 1U M 6.3V
Q5026	405 129 2308	TR UMZ1N	C5009	403 335 1405	CERAMIC 10U K 6.3V
Q5027	405 129 3008	TR UMD2N	C5010	403 325 7608	CERAMIC 1U K 16V
Q5028	405 129 8409	TR UMC2N	C5011 C5012	403 323 6009 403 325 7608	CERAMIC 10U M 16V CERAMIC 1U K 16V
Q5029	405 129 3008	TR UMD2N	C5012	403 340 3906	CERAMIC 10 K 16V CERAMIC 1U M 6.3V
Q5030	405 129 3008 405 129 2308	TR UMD2N	C5015	403 338 4403	CERAMIC 0.1U K 16V
Q5031 Q5032	405 129 2308	TR UMZ1N TR UMD2N	C5016	403 340 3906	CERAMIC 1U M 6.3V
Q5032 Q5033	405 130 1109	TR UMY1N	C5017	403 319 3005	CERAMIC 220P J 25V
Q5401	405 115 7508	TR DTC123JE	C5018	403 319 3005	CERAMIC 220P J 25V
Q5402	405 115 6907	TR DTC114EE	C5021	403 345 3000	POS-SOLID 47U M 6.3V
Q5405	405 150 6603	TR CPH3210	C5022 C5027	403 345 3901 403 340 3906	CERAMIC 3.3U M 6.3V CERAMIC 1U M 6.3V
Q5406	405 150 5002	TR CPH3109	C5027	403 335 1405	CERAMIC 10 W 6.3V
Q5407	405 115 5207	TR 2SC4617 R	C5030	403 335 1405	CERAMIC 10U K 6.3V
Q5409	405 151 9504 (INTEGRATED C	TR CY20AAJ-8	C5031	403 340 3906	CERAMIC 1U M 6.3V
IC501	409 417 8300	IC LA5627W	C5032	403 311 5403	CERAMIC 82P J 50V
IC503	409 301 5507	IC TC7S08FU	C5033	403 311 7704	CERAMIC 4700P K 25V
	(DIODES)		C5038	403 311 4505	CERAMIC 1000P K 50V
D5001	407 203 5809	DIODE F02J9	C5039 C5041	403 319 3005	CERAMIC 220P J 25V CERAMIC 0.01U K 25V
D5002	407 203 5809	DIODE F02J9	C5041	403 155 1807 403 155 1807	CERAMIC 0.01U K 25V CERAMIC 0.01U K 25V
D5003	407 201 2701	DIODE RB051L-40	C5042	403 342 7506	CERAMIC 1000P J 50V
D5006	407 203 5809	DIODE PRO511_40	C5044	403 342 7506	CERAMIC 1000P J 50V
D5007 D5008	407 201 2701 407 205 5203	DIODE RB051L-40 DIODE RB521S-30	C5045	403 155 1807	CERAMIC 0.01U K 25V
D5000	407 205 5203	DIODE RB521S-30	C5046	403 340 3906	CERAMIC 1U M 6.3V
D5010	407 201 2701	DIODE RB051L-40	C5047	403 338 4403	CERAMIC 0.1U K 16V
D5011	407 162 8507	DIODE DAN222	C5048	403 155 1807	CERAMIC 0.01U K 25V
D5012	407 162 8507	DIODE DAN222	C5049	403 338 4403	CERAMIC 0.1U K 16V
D5013	407 203 5601	DIODE RB461F	C5050 C5051	403 155 1807 403 338 4403	CERAMIC 0.01U K 25V CERAMIC 0.1U K 16V
D5014	407 203 5601	DIODE RB461F	C5051	403 335 4703	CERAMIC 0.10 K 16V CERAMIC 0.22U K 6.3V
D5015	407 203 5601	DIODE RB461F	C5052	403 169 2807	CERAMIC 330P J 50V
D5402 D5403	407 202 0300 407 122 2606	DIODE F1F16 DIODE SFPM-64	C5054	403 340 3906	CERAMIC 1U M 6.3V
D5403 D5404	407 202 0102	DIODE 5FPN-64 DIODE F1SN4	C5055	403 340 3906	CERAMIC 1U M 6.3V
D5405	407 199 4503	DIODE CR08AS-8-T1	C5056	403 311 4505	CERAMIC 1000P K 50V

LOCATION	PARTS NO.	DESCRIPTION	LOCATION	PARTS NO.	DESCRIPTION
C5058	403 345 3109	POS-SOLID 33U M 10V	R5074	401 258 9300	MT-GLAZE 220K DC 1/16W
C5059	403 345 3000	POS-SOLID 47U M 6.3V	R5075	401 258 0406	MT-GLAZE 120K DC 1/16W
C5061	403 335 1405	CERAMIC 10U K 6.3V	R5076	401 258 9300	MT-GLAZE 220K DC 1/16W
C5062	403 345 3000	POS-SOLID 47U M 6.3V	R5077	401 262 5206	MT-GLAZE 1.5K DC 1/16W
C5064	403 345 3901	CERAMIC 3.3U M 6.3V	R5078	401 224 9303	MT-GLAZE 1K JA 1/16W
C5065	403 340 3906	CERAMIC 1U M 6.3V	R5082	401 037 5202	MT-GLAZE 100 JA 1/10W
C5069	403 340 3906	CERAMIC 1U M 6.3V	R5083	401 235 1402	MT-GALZE 1.2K JA 1/16W
C5070	403 340 3906	CERAMIC 1U M 6.3V	R5084	401 225 1306	MT-GLAZE 470 JA 1/16W
C5401	403 345 3000	POS-SOLID 47U M 6.3V	R5086	401 226 1503	MT-GLAZE 0.000 ZA 1/16W
C5403	403 338 2904	CERAMIC 0.47U K 10V	R5087	401 226 1503	MT-GLAZE 0.000 ZA 1/16W
C5404	403 311 4505	CERAMIC 1000P K 50V	R5088	401 225 1405	MT-GLAZE 47K JA 1/16W
C5406	403 340 3906	CERAMIC 1U M 6.3V	R5089	401 226 1503	MT-GLAZE 0.000 ZA 1/16W MT-GLAZE 0.000 ZA 1/16W
C5407 C5409	403 311 3409 403 347 9109	CERAMIC	R5090 R5096	401 226 1503 401 261 1508	MT-GLAZE 0.000 ZA 1/16W
C5409 C5410	403 341 4407	CERAMIC	R5090	401 224 9006	MT-GLAZE 4.3K JA 1/16W
C5411	403 330 5903	CERAMIC 0.01U K 500V	R5098	401 226 1503	MT-GLAZE 0.000 ZA 1/16W
C5412	404 081 1701	ELECT 60U K 330V	DECOC	401 226 1503	MT-GLAZE 0.000 ZA 1/16W
C5414	403 311 7704	CERAMIC 4700P K 25V	R5401	401 224 9303	MT-GLAZE 1K JA 1/16W
	(RESISTORS)	POS-SOLID 33U M 10V POS-SOLID 47U M 6.3V CERAMIC 10U K 6.3V CERAMIC 3.3U M 6.3V CERAMIC 1U M 6.3V CERAMIC 0.47U K 10V CERAMIC 1U M 6.3V CERAMIC 0.01U K 16V CERAMIC 0.01U K 16V CERAMIC 0.033U Z 16V CERAMIC 0.047U K 350V CERAMIC 0.01U K 500V ELECT 60U K 330V CERAMIC 4700P K 25V	R5408	401 037 3406	MT-GLAZE 82 JA 1/8W
R5003	401 224 8900 [°]	MT-GLAZE 100K JA 1/16W	R5410	401 037 5202	MT-GLAZE 100 JA 1/10W
R5004	401 224 9501	MT-GLAZE 2.2K JA 1/16W	R5411	401 224 9006	MT-GLAZE 10K JA 1/16W
R5005	401 262 1000	MT-GLAZE 33K DC 1/16W	R5412	401 227 2400	MT-GLAZE 15 JA 1/16W
R5006	401 262 1703	MT-GLAZE 2.7K DC 1/16W	R5413	401 224 9006	MT-GLAZE 10K JA 1/16W
R5007	401 224 8900	MT-GLAZE 100K JA 1/16W	R5414	401 224 9303	MT-GLAZE 1K JA 1/16W
R5008	401 262 2304	MT-GLAZE 1.0K DC 1/16W	R5417	402 078 4407	MT-GLAZE 10M FKG 1/8W
R5009	401 224 9006	MT-GLAZE 10K JA 1/16W	R5418 R5419	401 226 5402	MT-GLAZE 56 JA 1/16W MT-GLAZE 82K DC 1/16W
R5010 R5011	401 224 8801 401 225 1702	MT-GLAZE 100 JA 1/16W MT-GLAZE 39K JA 1/16W	R5419 R5422	401 262 1208 402 079 0200	MT-GLAZE 82K DC 1/16W MT-GLAZE 220K JKG 1/8W
R5011	401 235 1702	MT-GLAZE 39K JA 1/16W MT-GALZE 1.2K JA 1/16W	R5423	401 225 0309	MT-GLAZE 220K JRG 1/8W MT-GLAZE 33 JA 1/16W
R5014	401 261 1508	MT-GLAZE 4.3K JA 1/16W	R5424	401 226 5402	MT-GLAZE 56 JA 1/16W
R5015	401 224 9006	CERAMIC 4700P K 25V MT-GLAZE 100K JA 1/16W MT-GLAZE 33K DC 1/16W MT-GLAZE 2.7K DC 1/16W MT-GLAZE 100K JA 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 27K DC 1/16W MT-GLAZE 33K DC 1/16W MT-GLAZE 10K JA 1/16W MT-GLAZE 47K JA 1/16W MT-GLAZE 47K JA 1/16W MT-GLAZE 47K JA 1/16W MT-GLAZE 33K DC 1/16W MT-GLAZE 47K JA 1/16W MT-GLAZE 47K JA 1/16W MT-GLAZE 33K DC 1/16W MT-GLAZE 33K DC 1/16W MT-GLAZE 47K JA 1/16W MT-GLAZE 47K JA 1/16W MT-GLAZE 33K DC 1/16W MT-GLAZE 33K DC 1/16W	R5425	402 077 7409	MT-GLAZE 100K JKG 1/8W
R5016	401 038 8400	MT-GLAZE 62 JA 1/10W	R5426	401 225 9005	MT-GLAZE 470K JA 1/16W
R5017	401 262 1000	MT-GLAZE 33K DC 1/16W	R5429	401 224 9006	MT-GLAZE 10K JA 1/16W
R5018	401 262 1703	MT-GLAZE 2.7K DC 1/16W	R5470	401 224 9303	MT-GLAZE 1K JA 1/16W
R5019	401 262 1307	MT-GLAZE 2.4K DC 1/16W	DDE04	(PROTECTORS)	PROTECTOR IO CA CAV
R5020	401 275 2001	MT-GLAZE 30K DC 1/16W MT-GLAZE 33K DC 1/16W	PR501 Z	∆ 645 029 2408 ∆ 645 029 2408	PROTECTOR IC 2A 24V
R5021 R5022	401 262 1000 401 263 1900	MT-GLAZE 3.3K DC 1/16W MT-GLAZE 3.3K DC 1/16W	PR302 Z	<u>1</u> 645 029 2406 <u>1</u> 645 029 2378	PROTECTOR,IC 2A 24V PROTECTOR,IC 1.5A 32V
R5023	401 038 8400	MT-GLAZE 62 JA 1/10W	PR504 /	645 029 2378	PROTECTOR,IC 1.5A 32V
R5024	401 224 9006	MT-GLAZE 10K JA 1/16W	PR505 7	\$ 645 029 2378	PROTECTOR,IC 1.5A 32V
R5025	401 235 1402	MT-GALZE 1.2K JA 1/16W		(JACK)	
R5026	401 225 1405	MT-GLAZE 47K JA 1/16W	JK501 🖊	∆ 645 027 7030	SOCKET,DC, DC JACK
R5027	401 225 1405	MT-GLAZE 47K JA 1/16W		(CONNECTORS)	
R5028	401 225 1405	MT-GLAZE 47K JA 1/16W	CN501	645 005 6932	PLUG,SIDE-ZR-SM3 (N.S.P)
R5029	401 224 8900	MT-GLAZE 100K JA 1/16W MT-GLAZE 39K DC 1/16W	CN502	645 009 9892	SOCKET,PWB-PWB 30(N.S.P) ASSY,WIRE BAT&PW1-SR662 (N.S.P.)
R5030 R5031	401 262 0706 401 225 2105	MT-GLAZE 39K DC 1/16W MT-GLAZE 12K JA 1/16W	CN503	636 055 8939	A331, WIRE DATAPWI-3R002 (N.S.P.)
R5032	401 226 2401	MT-GLAZE 560 JA 1/16W		L PWB,TB-1	
R5033	401 224 9501	MT-GLAZE 2.2K JA 1/16W	COMI	636 055 4306	
R5034	401 224 8900	MT-GLAZE 100K JA 1/16W		030 033 4300	
R5035	401 261 1508	MT-GLAZE 4.3K JA 1/16W		(SWITCH)	
R5036	401 225 8701	MT-GLAZE 120K JA 1/16W	S6001	645 032 8442	SWITCH,FT,
R5039	401 235 1402	MT-GALZE 1.2K JA 1/16W			· ·
R5040 R5041	401 224 9006 401 037 9101	MT-GLAZE 10K JA 1/16W MT-GLAZE 180 JA 1/10W	COMP	L PWB,TB-2	
R5041 R5042	401 262 1000	MT-GLAZE 180 JA 1/10W MT-GLAZE 33K DC 1/16W		636 055 4 313	
R5043	401 269 3908	MT-GLAZE 4.7K DC 1/16W			
R5044	401 224 8900	MT-GLAZE 100K JA 1/16W	0000	(SWITCH)	OWITOULET
R5045	401 224 8900	MT-GLAZE 100K JA 1/16W	S6002	645 032 8442	SWITCH,FT,
R5048	401 224 9501	MT-GLAZE 2.2K JA 1/16W		L DWD OV	
R5049	401 224 8900	MT-GLAZE 100K JA 1/16W	COMP	L PWB,SY-1	
R5050	401 224 8900	MT-GLAZE 100K JA 1/16W		636 055 4283	
R5051	401 224 9501	MT-GLAZE 2.2K JA 1/16W		(SEMICONDUCT	ODE)
R5052 R5054	401 225 0705 401 224 9303	MT-GLAZE 56K JA 1/16W MT-GLAZE 1K JA 1/16W	Q3001	(SEMICONDUCT 405 078 6105	TR 2SA1677
R5054 R5057	401 224 9303	MT-GLAZE 1K JA 1/16W MT-GLAZE 1K JA 1/16W	OR	405 078 6105	TR DTA124EU
R5058	401 261 1508	MT-GLAZE 4.3K JA 1/16W	OR	405 119 1007	TR UN5112
R5059	401 037 5400	MT-GLAZE 1K JA 1/10W	Q3002	405 078 6105	TR 2SA1677
R5060	401 224 8900	MT-GLAZE 100K JA 1/16W	OR	405 096 1205	TR DTA124EU
R5061	401 274 9704	MT-GLAZE 24K DC 1/16W	OR	405 119 1007	TR UN5112
R5062	401 224 9402	MT-GLAZE 1.0M JA 1/16W	Q3003	405 115 7201	TR DTC144EE
R5063	401 224 9402	MT-GLAZE 1.0M JA 1/16W	Q3071	405 129 2209	TR UMX1N
R5064 R5065	401 263 1702 401 258 9102	MT-GLAZE 1.2K DC 1/16W MT-GLAZE 5.6K DC 1/16W	OR Q3072	405 106 4707 405 129 2209	TR XP4501 TR UMX1N
R5066	401 258 9300	MT-GLAZE 220K DC 1/16W	Q3072 OR	405 106 4707	TR XP4501
R5067	401 258 0406	MT-GLAZE 120K DC 1/16W	J11	(INTEGRATED C	
R5068	401 224 9402	MT-GLAZE 1.0M JA 1/16W	IC301	410 356 1307	IC UPD78062GC-A19-8EU
R5069	401 262 2304	MT-GLAZE 1.0K DC 1/16W	IC302	409 383 1008	S-8423NFS
R5070	401 258 0406	MT-GLAZE 120K DC 1/16W	IC312	409 432 2505	IC LMV321M7X
R5071 R5072	401 258 9300 401 224 9402	MT-GLAZE 220K DC 1/16W MT-GLAZE 1.0M JA 1/16W	D3033	(DIODES)	DIODE MA143A
R5072 R5073	401 258 0406	MT-GLAZE 1.0M JA 1/16W MT-GLAZE 120K DC 1/16W	D3033 OR	407 130 2605 407 120 4503	DIODE MA143A DIODE DA204U-T106
1,0070	701 200 0400	III JEILE IZUN DO I/IUW	OIL	TUI 120 TUU	DIODE DINEUTO I 100

LOCATION	PARTS NO.	DESCRIPTION
D3041	407 199 1809 407 187 6304	LED SML-020MLT, VF LED
D3042		
D3051 D3052	407 149 0807 407 165 4001	DIODE 1SS355 DIODE DA227
D3054	407 149 0807	DIODE 1SS355
D3055	407 149 0807 407 149 0807	DIODE 1SS355
D3062	407 188 9809 407 165 4001	DIODE MA742
D3064	407 165 4001	DIODE DA227
D3065	407 149 0807	DIODE 1SS355
D3066 D3067	407 165 4001	DIODE DA227 DIODE DA227
D3069	407 149 0807 407 165 4001 407 165 4001 407 149 0807	DIODE 1SS355
D3070	407 149 0807	DIODE 1SS355
	(CRYSTAL DEV	(ICES)
X3001	645 037 5156	OSC,CERAMIC 4.00MHZ
X3002	645 034 7993	OSC,CRYSTAL 32.768KHZ
C3001	(CAPACITORS) 403 311 7506	CERAMIC 22P J 50V
C3001	403 311 7506	CERAMIC 22P J 50V
C3002	403 346 2309	CERAMIC 0.1U K 10V
C3004	403 311 4505	CERAMIC 0.1U K 10V CERAMIC 1000P K 50V CERAMIC 0.01U K 16V CERAMIC 0.1U K 10V CERAMIC 0.1U K 10V
C3005	403 311 3409	CERAMIC 0.01U K 16V
C3006	403 346 2309	CERAMIC 0.1U K 10V
C3009	403 346 2309	CERAMIC 0.10 K 10V
C3051 C3053	403 274 0903 403 346 2309	TA-SOLID 22U M 6.3V CERAMIC 0.1U K 10V
C3054	403 340 3906	CERAMIC 1U M 6.3V
C3055	403 346 2309	CERAMIC 0.1U K 10V
C3056	403 346 2309	CERAMIC 0.111K 10V
C3057	403 334 4902	DL-ELECT 0.1F Z 5.5V
C3058	403 340 3906	CERAMIC 1U M 6.3V
C3101 C3102	403 073 4409 403 335 1405	CERAMIC 0.039U K 50V CERAMIC 10U K 6.3V
C3102	403 311 3409	CERAMIC 0.01U K 16V
C3104	403 311 3409	CERAMIC 0.01U K 16V CERAMIC 0.01U K 16V
C3106	403 340 3906	CERAMIC 1U M 6.3V
C3121	403 335 1405	CERAMIC 1U M 6.3V CERAMIC 10U K 6.3V CERAMIC 1U M 6.3V
C3123	403 340 3906	CERAMIC 1U M 6.3V CERAMIC 1U M 6.3V
C3124 C3125	403 340 3906 403 340 3906	CERAMIC 1U M 6.3V CERAMIC 1U M 6.3V
C3123	403 340 3906	CERAMIC 1U M 6.3V CERAMIC 1U M 6.3V CERAMIC 1U M 6.3V
C3128	403 340 3906	CERAMIC 1U M 6.3V CERAMIC 1U M 6.3V
C3129	403 335 1405	CERAMIC 10U K 6.3V
	(RESISTORS)	
R3001	401 224 9006 401 225 1405	MT-GLAZE 10K JA 1/16W
R3002 R3003	401 225 1405 401 224 9006	MT-GLAZE 47K JA 1/16W MT-GLAZE 10K JA 1/16W
R3004	401 225 0408	MT-GLAZE 330K JA 1/16W
R3005	401 225 1405	MT-GLAZE 47K JA 1/16W
R3006	401 225 1405	MT-GLAZE 47K JA 1/16W
R3010	401 225 1405	MT-GLAZE 47K JA 1/16W
R3011	401 257 4108	MT-GLAZE 100K DC 1/16W
R3012 R3014	401 257 4108 401 224 8900	MT-GLAZE 100K DC 1/16W MT-GLAZE 100K JA 1/16W
R3015	401 225 1405	MT-GLAZE 100K JA 1/16W
R3016	401 224 9006	MT-GLAZE 10K JA 1/16W
R3017	401 224 8900	MT-GLAZE 100K JA 1/16W
R3018	401 224 9303	MT-GLAZE 1K JA 1/16W
R3021	401 224 9006	MT-GLAZE 10K JA 1/16W
R3022 R3023	401 224 9907 401 224 9006	MT-GLAZE 22K JA 1/16W MT-GLAZE 10K JA 1/16W
R3023	401 224 9006	MT-GLAZE 10K JA 1/16W
R3025	401 224 9907	MT-GLAZE 22K JA 1/16W
R3041	401 225 1306	MT-GLAZE 470 JA 1/16W
R3042	401 225 0002	MT-GLAZE 270 JA 1/16W
R3043	401 225 7902	MT-GLAZE 220 JA 1/16W
R3051 R3052	401 224 8900 401 224 8900	MT-GLAZE 100K JA 1/16W MT-GLAZE 100K JA 1/16W
R3052 R3053	401 224 9303	MT-GLAZE 100K JA 1/16W
R3056	401 224 9303	MT-GLAZE 1K JA 1/16W
R3101	401 224 9501	MT-GLAZE 2.2K JA 1/16W
R3102	401 224 9501	MT-GLAZE 2.2K JA 1/16W
R3103	401 224 9006	MT-GLAZE 10K JA 1/16W
R3104	401 224 8801	MT-GLAZE 100 JA 1/16W

LOCATION	PARTS NO.	DESCRIPTION
R3105	401 225 1207	MT-GLAZE 4.7K JA 1/16W
R3106	401 224 9303	MT-GLAZE 1K JA 1/16W
R3107	401 225 0101	MT-GLAZE 27K JA 1/16W
R3108	401 224 9501	MT-GLAZE 2.2K JA 1/16W
R3109	401 224 8900	MT-GLAZE 100K JA 1/16W
R3120	401 226 1503	MT-GLAZE 0.000 ZA 1/16W
R3161	401 237 8508	MT-GLAZE 390K JA 1/16W
R3162	401 225 1405	MT-GLAZE 47K JA 1/16W
R3163	401 224 9303	MT-GLAZE 1K JA 1/16W
R3164	401 224 9006	MT-GLAZE 10K JA 1/16W
R3166	401 224 9303	MT-GLAZE 1K JA 1/16W
R3167	401 224 9303	MT-GLAZE 1K JA 1/16W
R3168	401 225 0408	MT-GLAZE 330K JA 1/16W
	(SWITCHES)	
S3001	645 029 5911	SWITCH,SLIDE 1P-3T,
S3029	645 028 4069	SWITCH, PUSH 1P-2TX1, SHUTTER
	(CONNECTORS	5)
CN301	645 035 5424	SOCKET,PWB-PWB 30(N.S.P)
CN302	645 025 1320	PLUG,2P (N.S.P)
CN303	645 002 6423	SOCKET,FFC 5P (N.S.P)
CN304	645 025 1320	PLUG,2P (N.S.P)
CN310	645 002 2876	PLUG,2P (N.S.P)

ACCESSORIES

	↑ 645 037 0328 ↑ 645 037 0342 ↑ 645 037 0205 645 024 7330 645 021 77200 645 020 3718 645 020 3725 645 020 7129 645 023 3227 645 023 3227 645 025 5403 645 024 6012 636 056 2240 ↑ 645 036 4129 ↑ 645 036 4112 645 036 9919 636 056 1007	BATTERY CHAGER, VPC-X360 ONLY BATTERY CHAGER, EXCEPT VPC-X360 BATTERY, RECHARGE, COMP. (NI-MH BATTERY) CABLE, A/V CABLE, MINI 8P&D-SUB 9P(MAC ADAPTER) CABLE, PC DOS/V CABLE, PC DOS/V CABLE, PC DOS/V CABLE, SCART ADAPTOR, VPC-X360E ONLY CASE SOFT-SR662/E CORD, POWER-1.2MK, VPC-X360E ONLY CORD, POWER-1.9MK, VPC-X360E ONLY CORD, POWER-1.9MK, VPC-X360E ONLY DISC, CD-ROM CELIS 662 WM DISC, CD-ROM MGI PS8 STRAP HAND-SR662/J
9112	645 026 5297 636 056 1397	UNIT,SSFDC INSTRUCTION MANUAL(CAMERA: English), VPC-X360E ONLY
9112	636 056 1434	INSTRUCTION MANUAL(CAMERA: English, Spanish,French), EXCEPT VPC-X360E
9214	636 056 1458	INSTRUCTION MANUAL(CAMERA: German), VPC-X360EX ONLY
9113	636 055 5303	INSTRUCTION MANUAL(MGI PhotoSuite: English, Spanish, French, German)
9117	636 056 1410	INSTRUCTION MANUAL(SANYO Software Pack: English)
9213	636 057 0825	INSTRUCTION MANUAL(PDF SANYO Software Pack: English, Spanjsh, French, German)

PACKING MATERIALS

636 056 2127	CARTON CASE INNER-662/E, VPC-X360E ONLY
636 056 2134	CARTON CASE INNER-662/EX,
	VPC-X360EX ONLY
636 056 2141	CARTON CASE INNER-662/U, VPC-X360 ONLY
645 031 3080	POLY SHEET-0300X0300*NC
636 056 2189	REINFORCEMENT PAD, A-662/E(BOTTOM)
636 055 4627	REINFORCEMENT PAD,B-112/E (TOP)



OVERALL WIRING

